



**Department of  
Transportation**

# **I-81 VIADUCT PROJECT - PHASE 1, CONTRACT 1**

**PIN 3501.90, Contract D900054**

## **DB CONTRACT DOCUMENTS REQUEST FOR PROPOSALS**

### **PART 7**

### **ENGINEERING DATA (PART 3 OF 5)**

**Draft May 17, 2022**

## **ENGINEERING DATA**

### **TABLE OF CONTENTS**

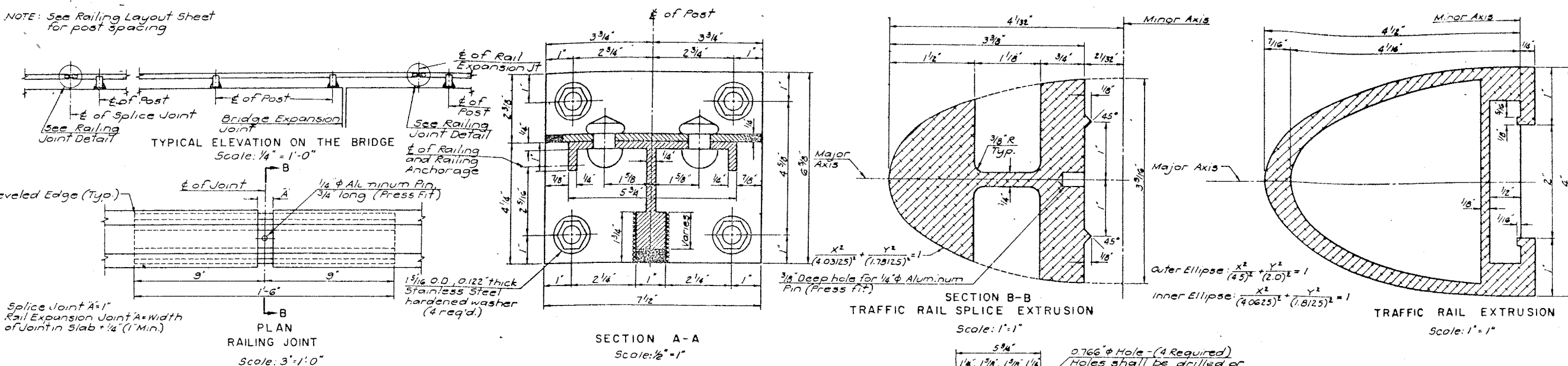
#### **ASBESTOS SURVEY REPORTS (CONTINUED)**



## **Asbestos Survey Reports (Continued)**

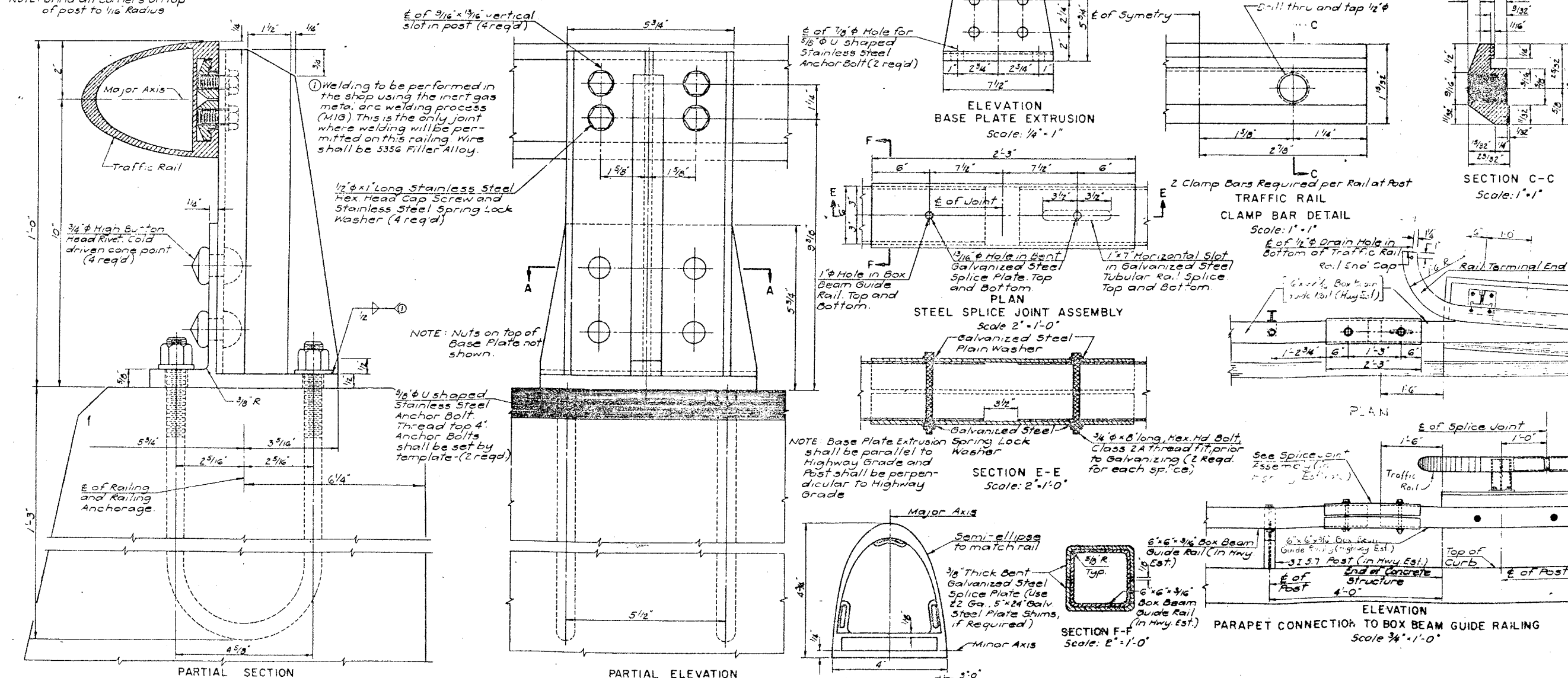
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-090-3(26) 1-451-2(116)	214	309
INTERSTATE ROUTE CONNECTION 570 BUTTERNUT INTERCHANGE (PHASE 2) ONONDAGA COUNTY				

NOTE: See Railing Layout Sheet for post spacing



Splice Joint A=1"  
Rail Expansion Joint A=Width of Joint in Slab 1/4" (1 Min.)

NOTE: Grind all corners on top of post to 1/16" Radius



**Notes:**  
All railing is to be fabricated and erected so that the rail is parallel to the parapet. Since the finished railing must meet all requirements of fit, alignment and grade to the full satisfaction of the Engineer, it is suggested that complete field measurements be made before any shop fabrication is performed.

Aluminum rails, posts, post bases, clamp bars including stainless steel cap screws and lock washers, rail splices, rivets, end caps, pins, rail terminal ends, aluminum caulking compound and any necessary shims and/or pads and steel splice joint assembly between the end of the parapet and the box beam guide railing including tubular rail splice, end splice plate and anchor studs shall be paid for under the railing item.

Anchor bolts, nuts and washers shall be paid for under Item 20.

After the anchor bolt nuts have been placed and tightened to the satisfaction of the Engineer, the bolts shall be cut off 1/8 inch above the nut and peened.

Rails shall be continuous over a minimum of three posts. On "W" type wingwalls the rails may be continuous over two posts.

Aluminum rivets shall be cold driven.

Galvanizing shall be done in accordance with Material Specification M19. Bolts to be galvanized shall have a Class 2A thread fit prior to galvanizing. Materials used in the manufacture of this railing shall conform to the requirements and/or specifications listed below:

Piece	ASTM Designation	Commercial Alloy & Temp.
Aluminum Extrusions (Posts, Post bases, rails, rail splices, clamp bars, pins and rail terminal ends)	B221	6061-T6
Aluminum Rivets	B316	6061-T6
Aluminum Plate Shims	B209	1100-0
Aluminum Rail End Caps	B26	43F or 356F
Steel Plate Shims	A36	
Steel Tubular Rail Splices	A500 Grade B or A501	
Steel Splice Plates	A36	
Steel Splice Bolts, Nuts and Washers	A307	
Steel Anchor Studs	A307	
Stainless Steel Anchor Bolts (100,000 psi. Min. Tensile Strength and 80,000 psi. Min. Yield Point)	A193 Grade B5 or A276 Type 304 or A276 Type 430	

Stainless Steel Cap Screws A193 Grade B8  
Stainless Steel Spring Lock Washers shall be in accordance with the Military Standard MS3533n  
Stainless Steel Nuts for Anchor Bolts A194 Grade 6  
Stainless Steel Washers for Anchor Bolts A167 Type 302 or 304

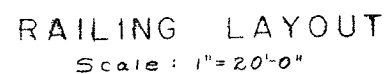
ASPH Interim Spec-I(44)

DESIGNED BY	REV 3
CHECKED BY	REV 2
APPROVED BY	REV 1

BRIDGE NO. 2

INTERSTATE ROUTE 481 OVER DENNIS YANOS

ALUMINUM BRIDGE RAILING - 1 RAIL



BRIDGE NO. 2

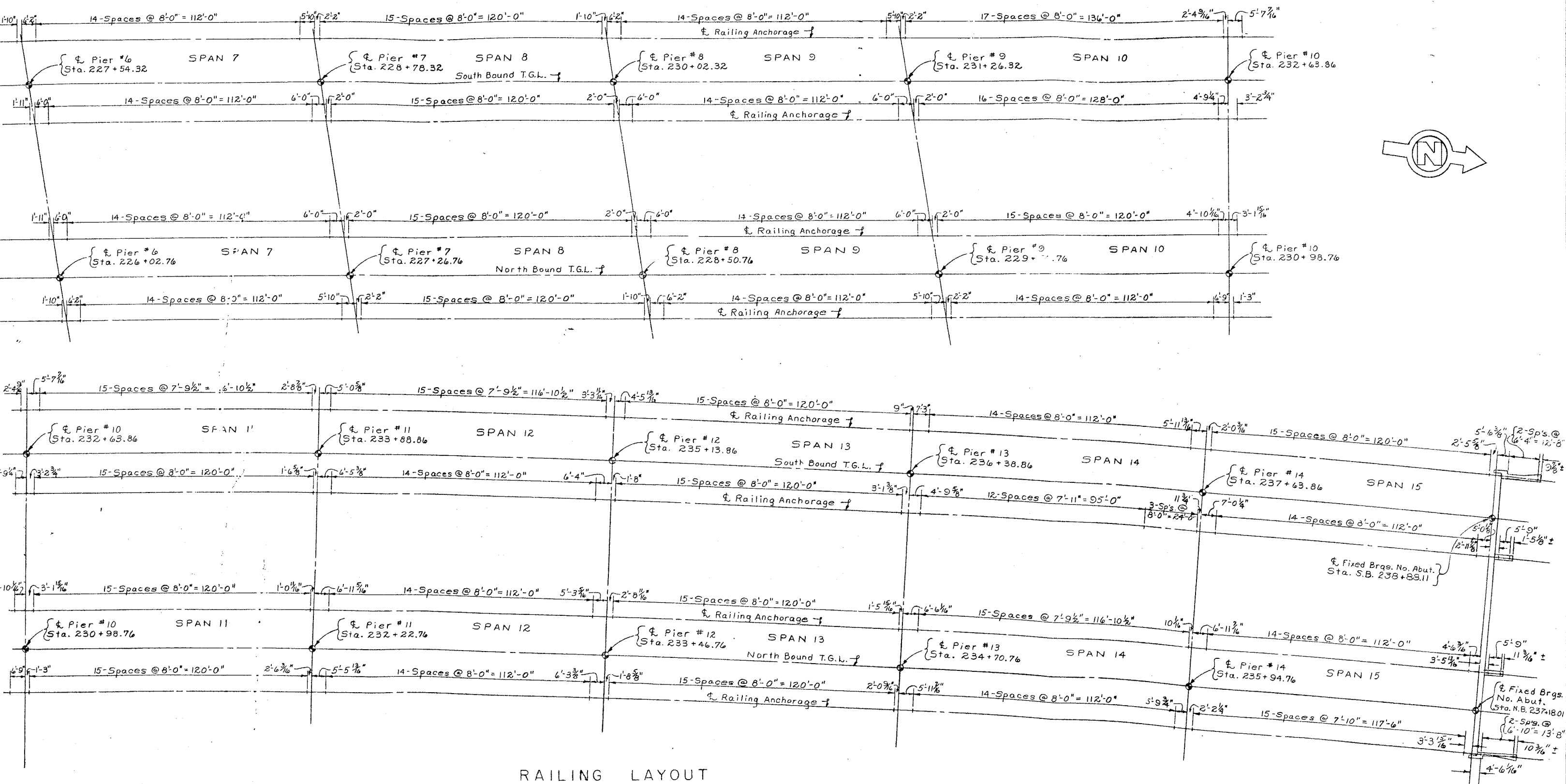
INTERSTATE ROUTE 481 OVER DEWITT YARDS

RAILING LAYOUT

DRAWING NO 27-1-50

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-60-3(23) 1-33-2(115)	216	509

**INTERSTATE ROUTE CONNECTION 570**  
**BUTTERNUT INTERCHANGE (PAGE 2)**  
**ONEIDA COUNTY**



PROJECT ENGINEER R. Parker  
IN CHARGE OF F. Eckel  
DESIGNED BY J. C. Thompson  
DESIGN CHECKED BY D. H. Smith  
ESTIMATED BY J. C. Thompson  
DETAILS CHECKED BY D. H. Smith

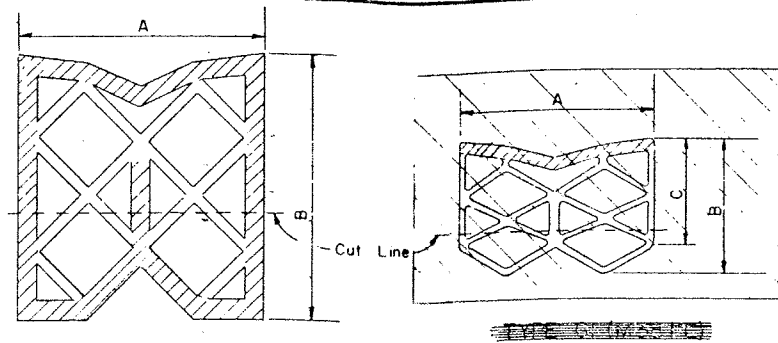
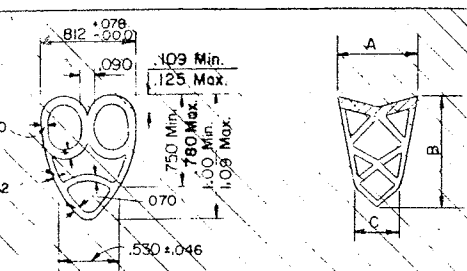
BRIDGE NO. 2

INTERSTATE ROUTE 481 OVER DEWITT YARDS

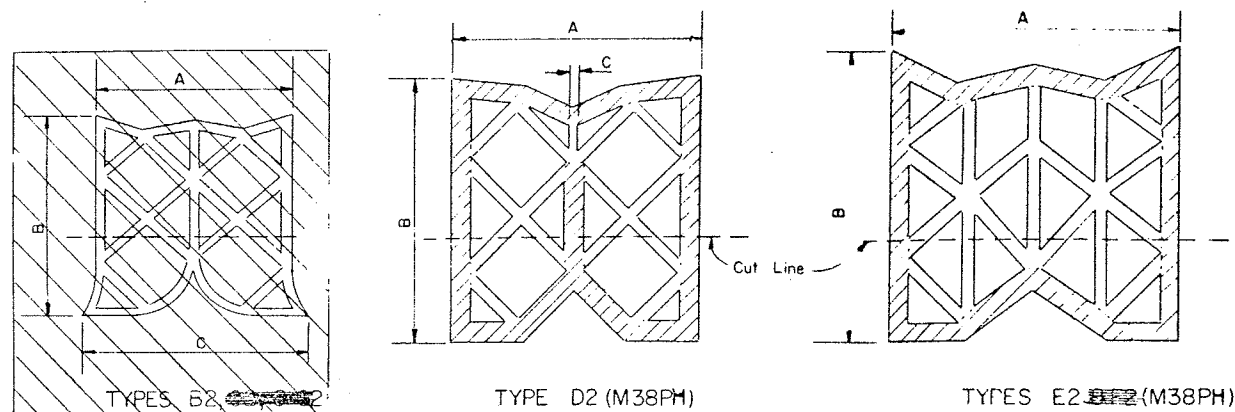
RAILING LAYOUT

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-890-3(25) 1-891-2(16)	217	309

**INTERSTATE ROUTE CONNECTION 570**  
**BUTTERNUT INTERCHANGE (PHASE 2)**  
**ONONDAGA COUNTY**



TYPES ~~DI, EI~~ DI, EI, ~~DI, EI~~ (M 38PH)



TYPE D2 (M38PH)

TYPES E2 ~~332~~ (M38PH)

Cross hatched portions of the above details shall be considered as the shell.

Non-cross hatched portions of the above details shall be considered as webs unless a specific dimension is shown.

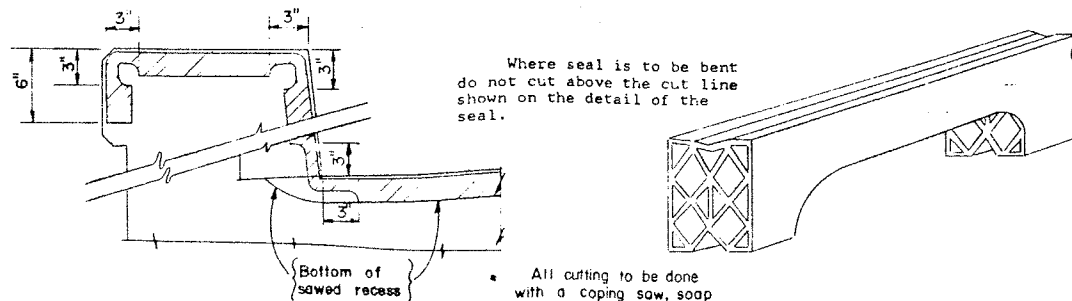
TYPES	A	B	C	THICKNESS	
				SHELL	WEBS
A1	3/16" ± .06	1/8" ± .05	7/16" ± .04	3/32" ± .02	3/64" ± .01
A2					
B1	1/4" ± .03	2" ± .15		1/8" ± .03 ± .02	3/32" ± .02 ± .01
B2	1/4" ± .03 ± .05	1/4" ± .13	2" ± .19		3/64" ± .03 ± .02
F1	2" ± .04 ± .13	2 1/16" ± .13		1/8" ± .03 ± .02	3/32" ± .03 ± .02
G2	2" ± .19 ± .00	2" ± .13	2 1/4" ± .19		3/32" ± .03 ± .02
D1	2 1/2" ± .25 ± .00	2 3/4" ± .13		3/16" ± .04 ± .03	3/32" ± .03 ± .02
D2	2 1/2" ± .25 ± .00	2 3/4" ± .13	3/64" ± .03 ± .02	3/16" ± .04 ± .03	3/32" ± .03 ± .02
E1	3" ± .25 ± .00	3 1/32" ± .19		3/16" ± .04 ± .03	1/8" ± .04 ± .03
E2	3" ± .25 ± .00	3" ± .19		3/16" ± .04 ± .03	1/8" ± .04 ± .03
F2	4" ± .31 ± .00	4 1/32" ± .25		1/4" ± .04 ± .03	3/16" ± .04 ± .03
F3	4" ± .31 ± .00	4" ± .25		3/16" ± .04 ± .03	1/8" ± .04 ± .03
G1	5 1/8" ± .33 ± .00	1 7/8" ± .06	1 1/8" ± .06	3/32" ± .02	5/64" ± .02
G2	1 5/8" ± .13 ± .00	1 7/8" ± .13	1 1/8" ± .13		5/64" ± .03

any changes in the shape or dimensions of preformed plastic joint sealer must be approved by the Deputy Chief Engineer, (Design). The minimum thickness of any web shall not be less than as specified. The average thickness of all webs shall be within the tolerances specified.

Joints which are to be sealed with preformed elastic joint sealers shall be sealed before the structure is opened to traffic, including construction traffic, and before discontinuing operation when work is suspended during the winter. The joints shall be thoroughly cleaned, using whatever equipment or method is necessary, and they are free of foreign material. N3BPM Sealer shall be installed by suitable hand or machine tools and thoroughly secured in place with the lubricant which shall cover both sides of the sealer over the full area of contact with the sides of the joint. The sealer shall be installed in a compressed condition at the depth shown on the contract plans.

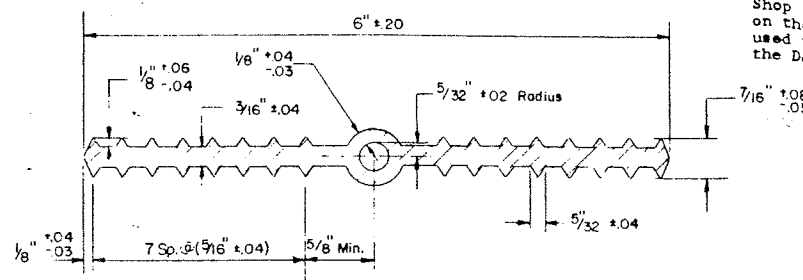
The sealer shall be supplied in one piece for the full width of each joint. Seals will not be permitted when the length of this piece is less than 50 feet. For joints up to 100 feet, the seal will be one piece. For lengths in excess of 100 feet, the seal will be placed at approximately 50 foot intervals.

~~Transverse welds with a long lap joint extension from the transverse welds shall be placed in the pipe~~  
~~connections in longitudinal welds and shall be placed in the pipe between the transverse welds~~  
~~connections in longitudinal welds and longitudinal welds shall be placed with a minimum~~



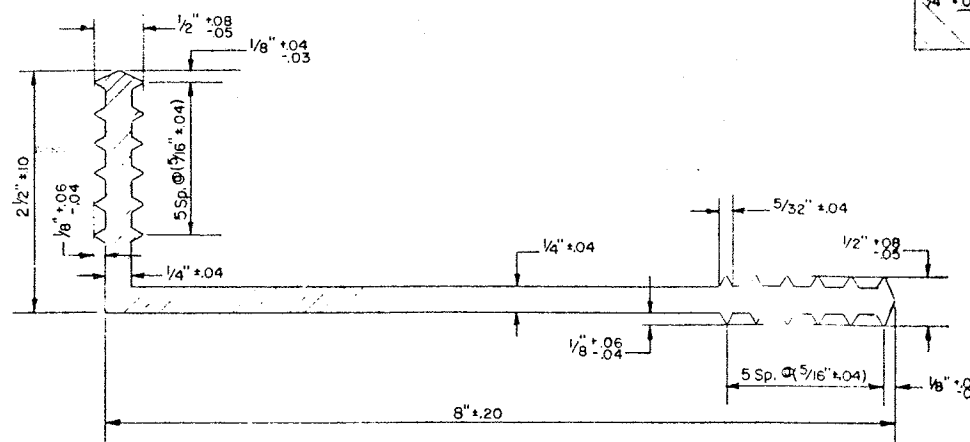
- \* All cutting to be done with a coping saw, soap and water.

DETAIL FOR CUTTING AND BENDING SEAL (M38PH)



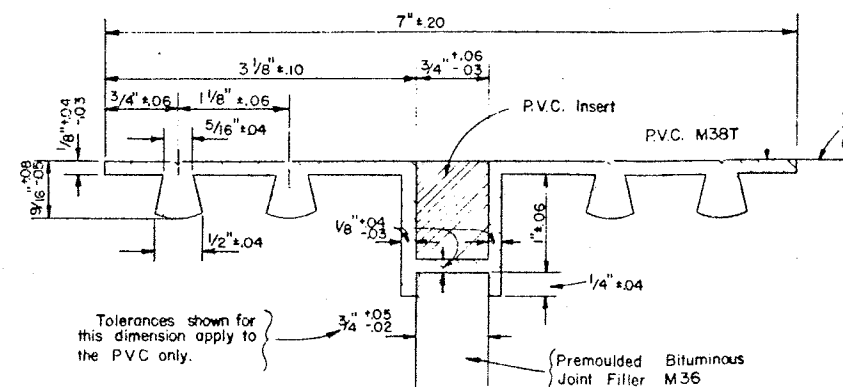
TYPE A (M38T)

Holes must not be made in waterstop for any purpose.

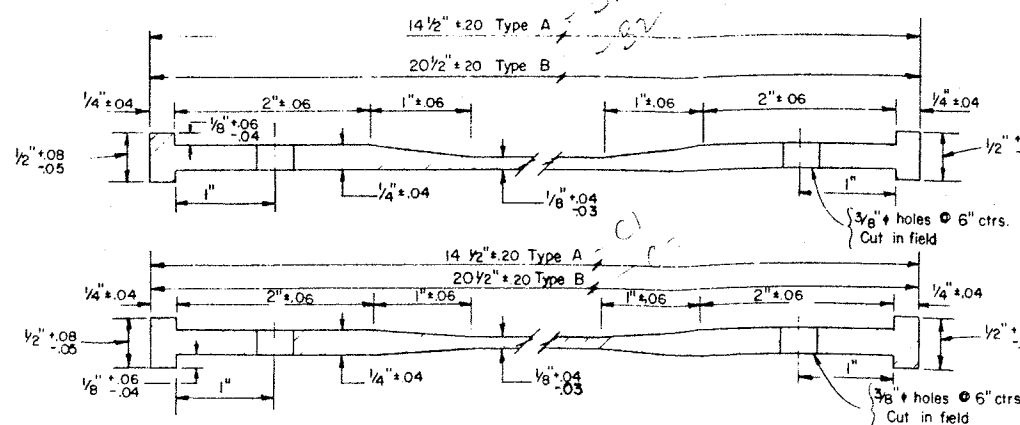


Holes must not be made in waterstop for any purpose.

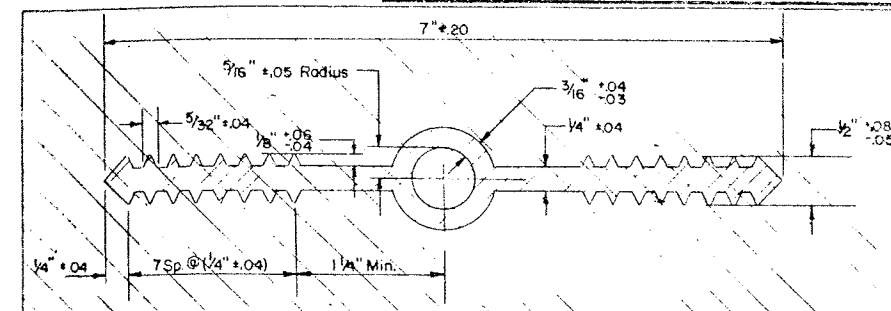
TYPE CA (M38T)



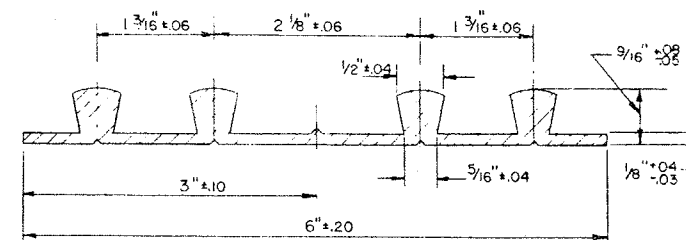
TYPE B



TYPES A & B PVC TROUGHS (M38T)  
EITHER SHAPE MAY BE USED



14-00000



Holes must not be made in waterstop for any purpose except as required for tacking to forms. Tacking to forms will only be permitted in the area between the outside ribs and the edges of waterstop.

TYPE D (M38T)

PVC Insert:  
 Closed cell polyvinyl chloride (SP)  
 Grade VE-45W as per ASTM D1667. Color  
 shall be light gray.  
 Density shall be a min. of 3 lbs. and  
 a max. of 5 lbs. per cubic foot.  
 Material shall be sampled as and at  
 the same time as the M3ET. The sides of  
 the PVC Insert shall be bonded to the  
 waterstop at the factory.

Holes must not be made in waterstop for any purpose except as required for tacking to forms.

Tacking to forms will only be permitted in the area between the outside ribs and the edges of waterstop.

Type E waterstop shall be light gray in color.

One longitudinal shop splice will be permitted in the fabrication of the Type B Trough.  
PVC trough to be paid for under Item 101B.

BRIDGE NO. 2  
INTERSTATE ROUTE 431 OVER DEWITT YARDS

PREFORMED ELASTIC JOINT SEALER  
PVC WATERSTOPS AND PVC TROUGHS

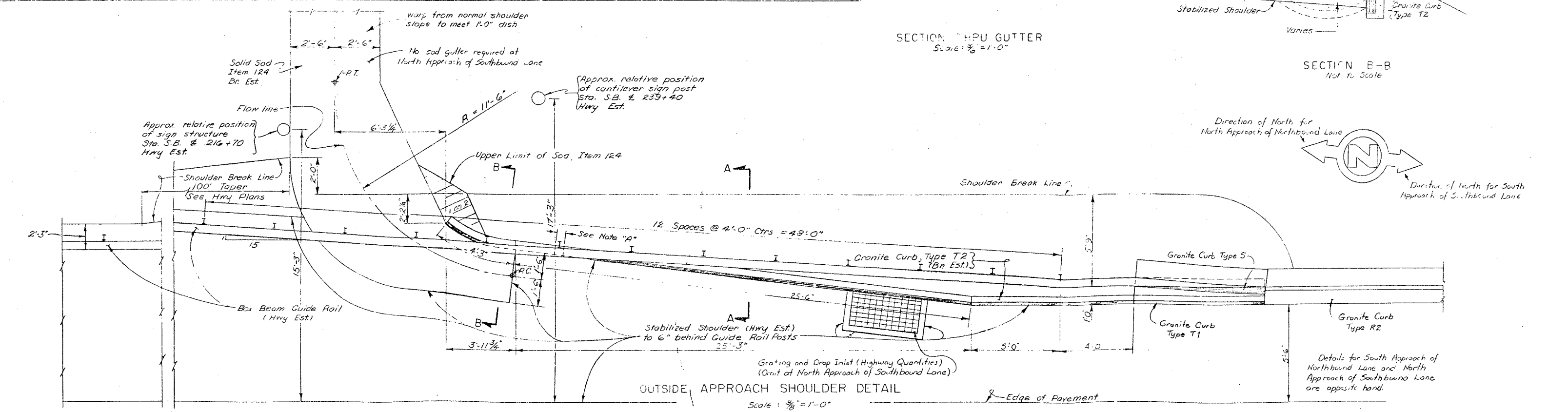
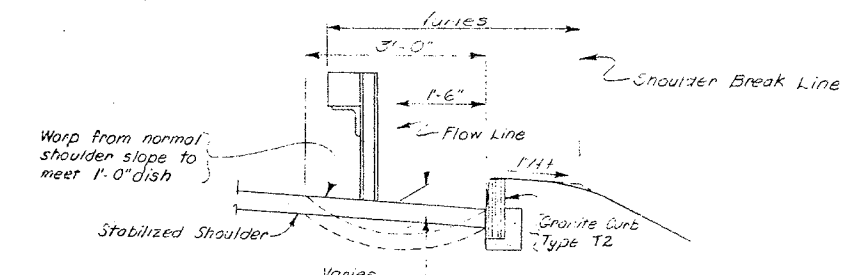
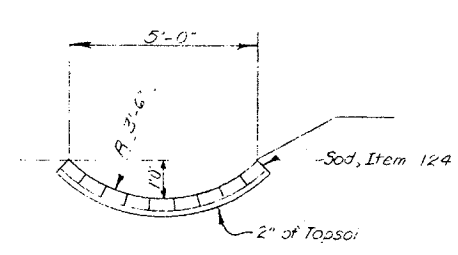
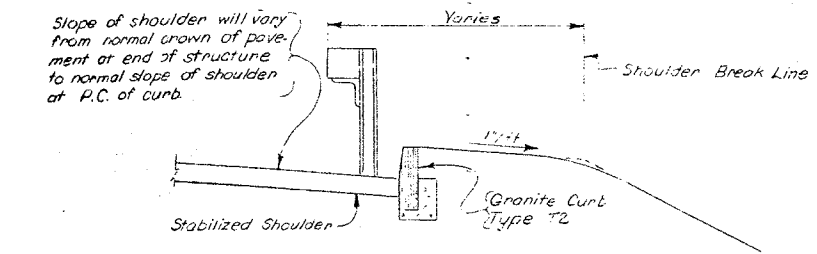
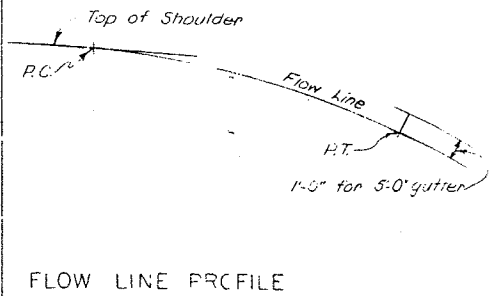
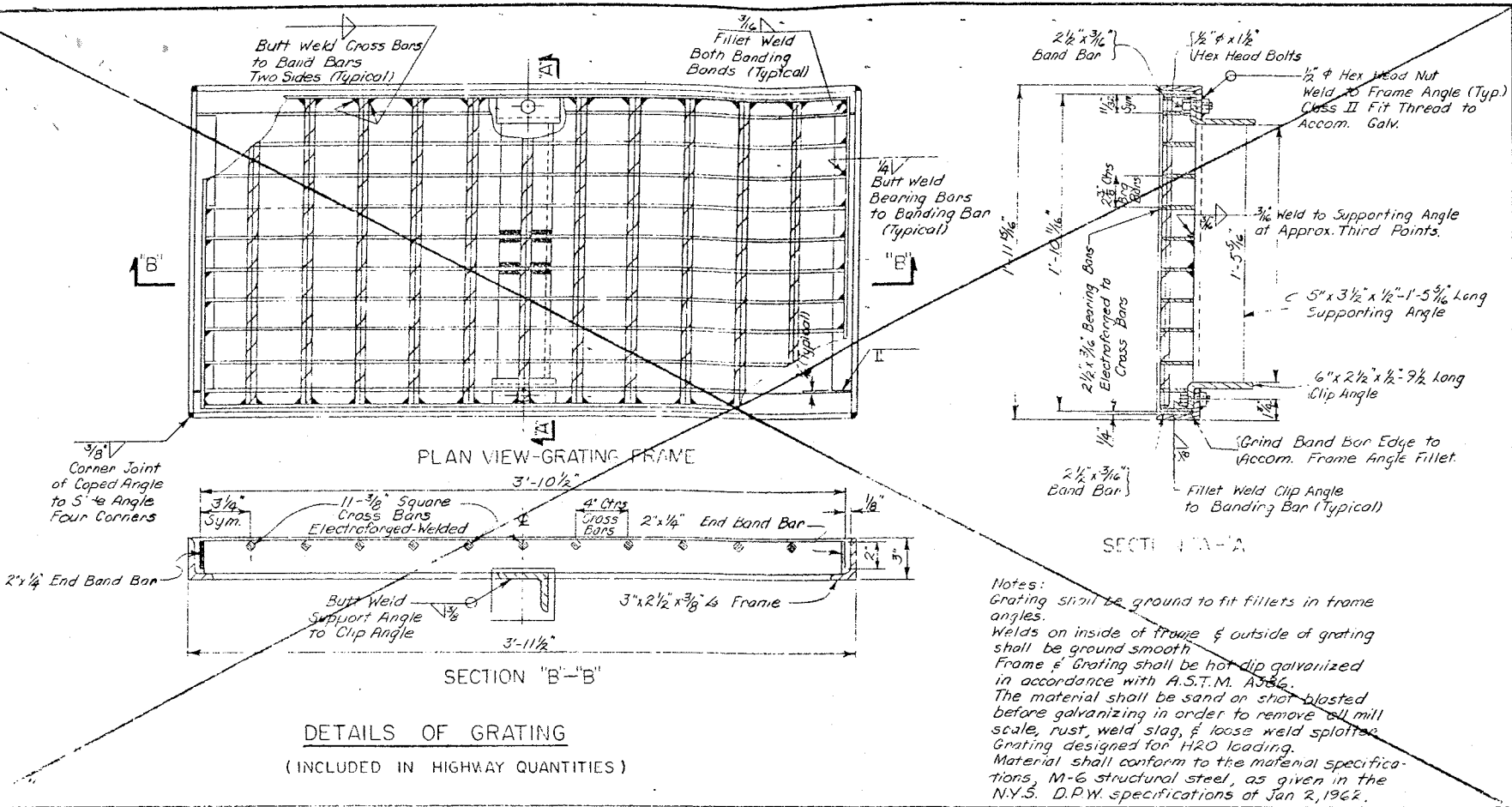
DRAWING NO. 20 OF 50

PROJECT ENGINEER.....  
IN CHARGE OF.....  
DESIGNED BY.....  
DESIGN CHECKED BY.....  
DRAWN BY VINCENT KIRKAVICH  
DRAWING CHECKED BY D. Granoff 7/11/67

Revised: 10/67

FED. RD. RES. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-300-3122	218	309

**INTERSTATE ROUTE CONNECTION 370**  
BUTTERNUT INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY



Note "A" - 6" min. gap in granite curb to be filled with mortar after guide rail post has been set. This filled in portion shall be paid for at the unit price bid for the adjacent granite curb.

Grating and Drop Inlet to be included in the Hwy Est.

All sod to be included in the Bridge Estimate.

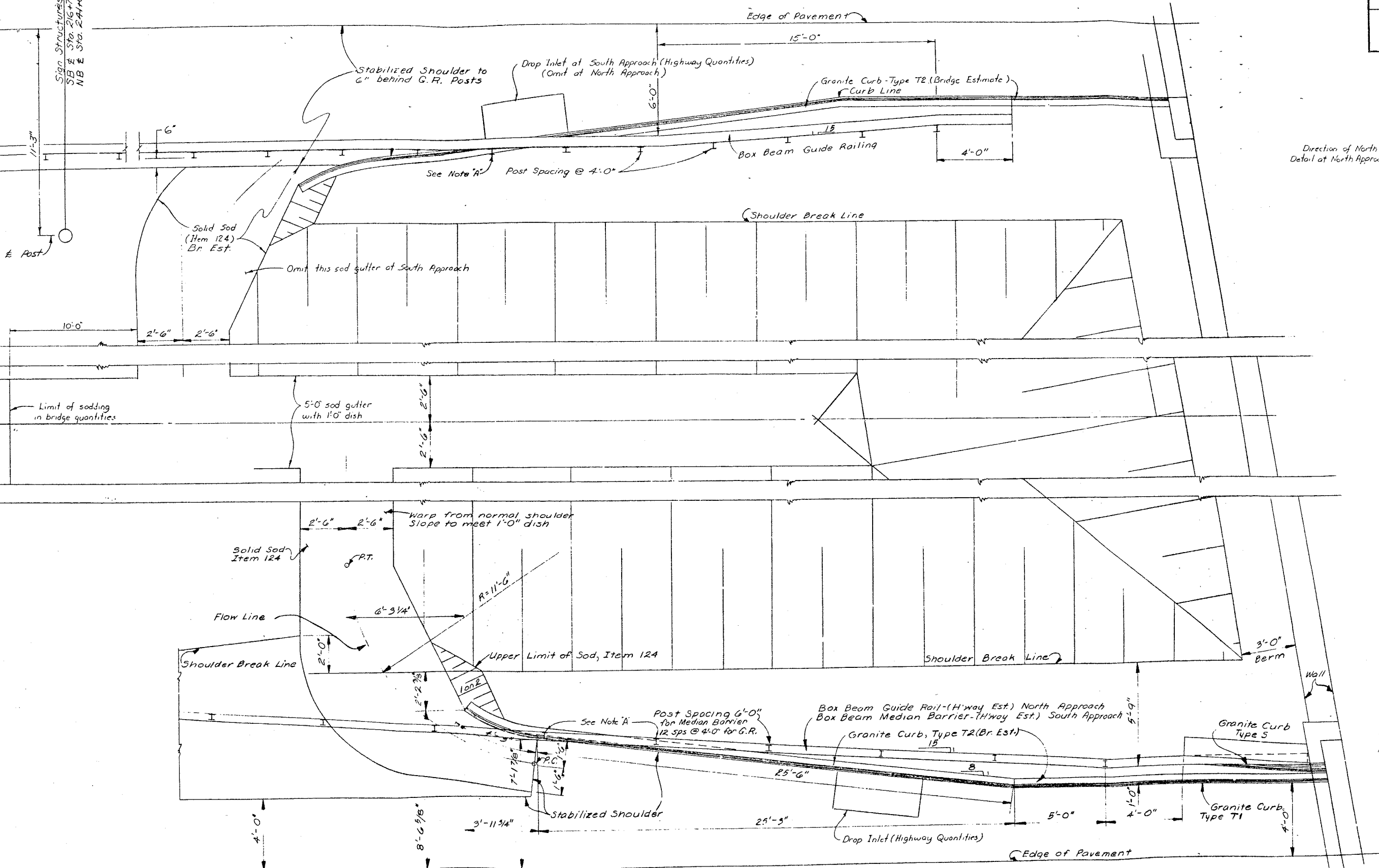
PROJECT ENGINEER: R. PARKER  
CHARGE OF: J. P. SHERMAN  
DESIGNED BY:  
SIGN CHECKED BY:  
TRAILED BY: J. A. SHERMAN  
TAL CHECKED BY: J. W. SHERMAN

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DENNY YARDS

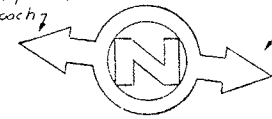
**DRAINAGE DETAILS**  
DRAWING NO. 40 OF 50

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-690-3035 1-421-2116	219	309

**INTERSTATE ROUTE CORRECTION 570**  
BUTTERNUT INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY



Direction of North for Wall  
Detail at North Approach



Direction of North for Wall  
Detail at South Approach

Note "A" 6" minimum gap in granite curb to be filled with mortar after guide post has been set. This filled in portion shall be paid for at this unit price b.d. for the adjacent granite curb.

MALL APPROACH SHOULDER DETAILS  
SCALE: 3/8"=1'-0"

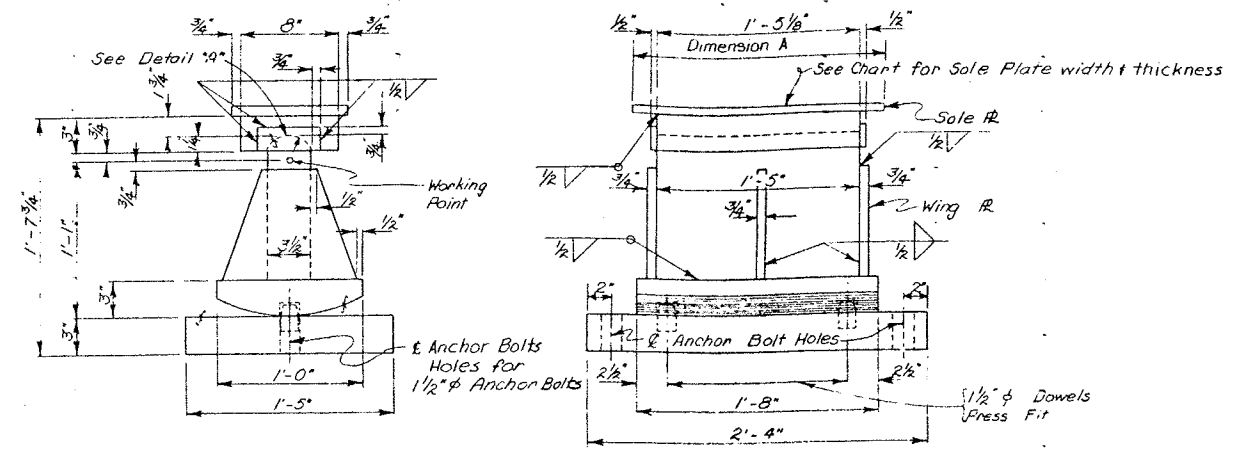
PROJECT ENGINEER R. Parmer  
IN CHARGE OF F. W. Eckel  
DESIGNED BY  
DESIGN CHECKED BY  
DETAILED BY J. C. Colburn  
DETAIL CHECKED BY F. W. Eckel

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS  
MALL APPROACH SHOULDER DETAILS

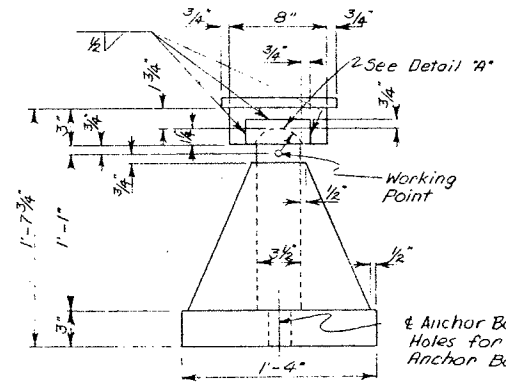


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-481-2(116)	220	899

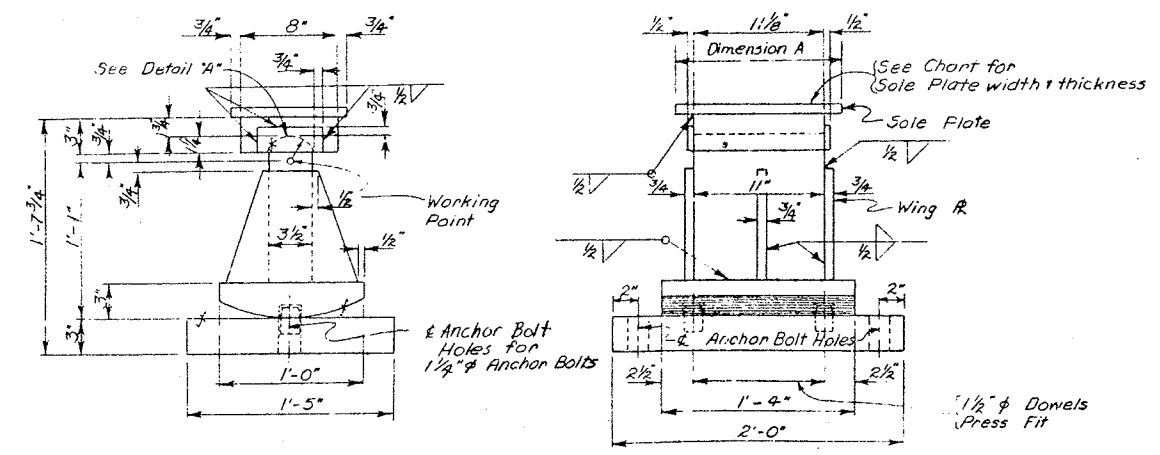
**INTERSTATE ROUTE CONNECTION 870**  
BUTTERNUT INTERCHANGE (PIECE 2)  
CHONDAGA COUNTY



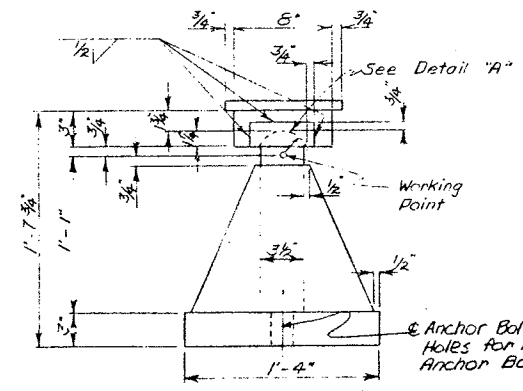
EXPANSION BEARING - TYPE II  
Scale: 1 1/2\"/>



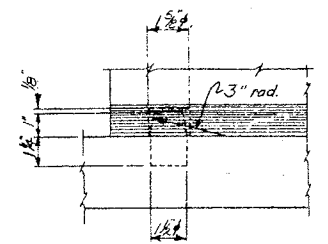
FIXED BEARING - TYPE II  
Scale: 1 1/2\"/>



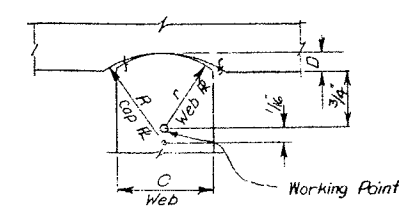
EXPANSION BEARING - TYPE I  
Scale: 1 1/2\"/>



FIXED BEARING - TYPE I  
Scale: 1 1/2\"/>

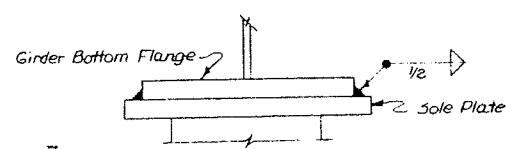


DETAIL OF DOWEL  
Scale: 3\"/>

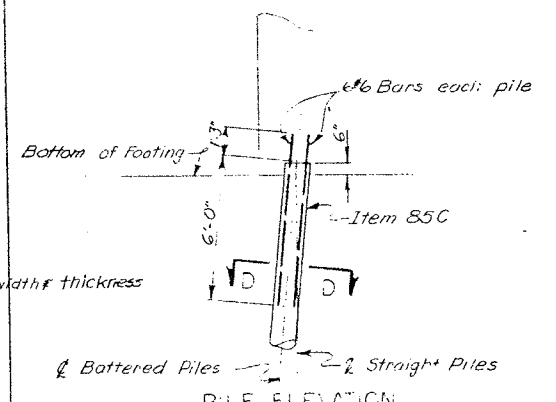
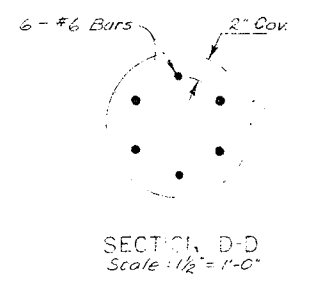


Bearing Type	R	r	C	D
Type I	2 1/4"	2"	3 1/2"	1 1/4"
Type II	2 1/4"	2"	3 1/2"	1 1/4"
Type III	2 1/4"	2"	3 1/2"	1 1/4"

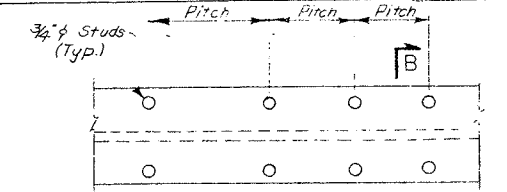
DETAIL A  
No Scale



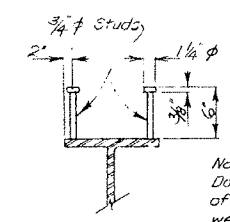
TYPICAL SOLE PLATE  
TO GIRDER CONNECTION DETAIL  
No Scale



PILE ELEVATION  
Scale: 1/4\"/>



PARTIAL PLAN OF STUDS  
Scale: None



SECTION B-B  
Scale: None

Note:  
Do not paint surface  
of flange on which  
welds are made.

STUD SHEAR CONNECTORS ITEM 28B

PROJECT ENGINEER E. Parker  
IN CHARGE OF F. Estel  
DESIGNED BY  
DESIGN CHECKED BY  
DETAILED BY J. J. J. J.  
DETAIL CHECKED BY J. J. J. J.

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

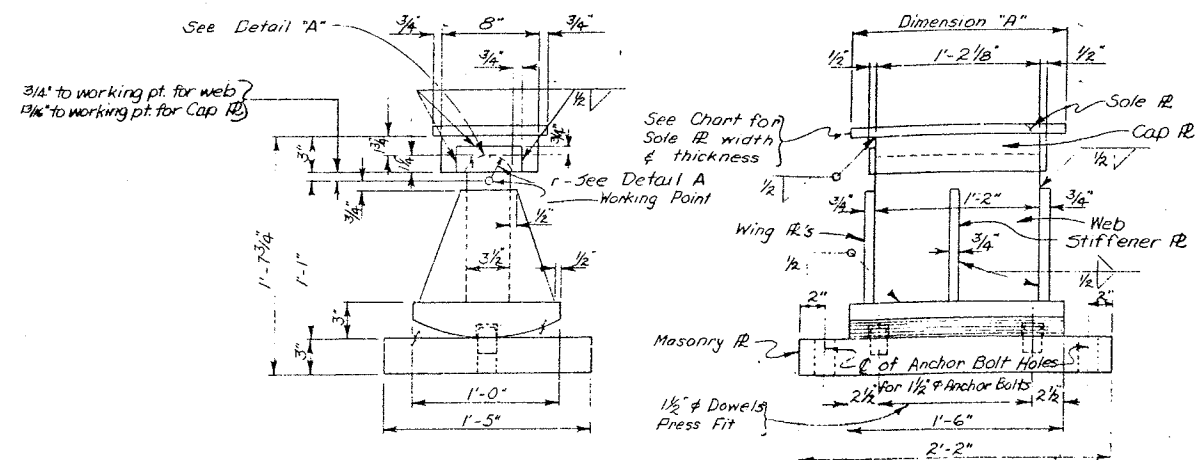
BEARINGS



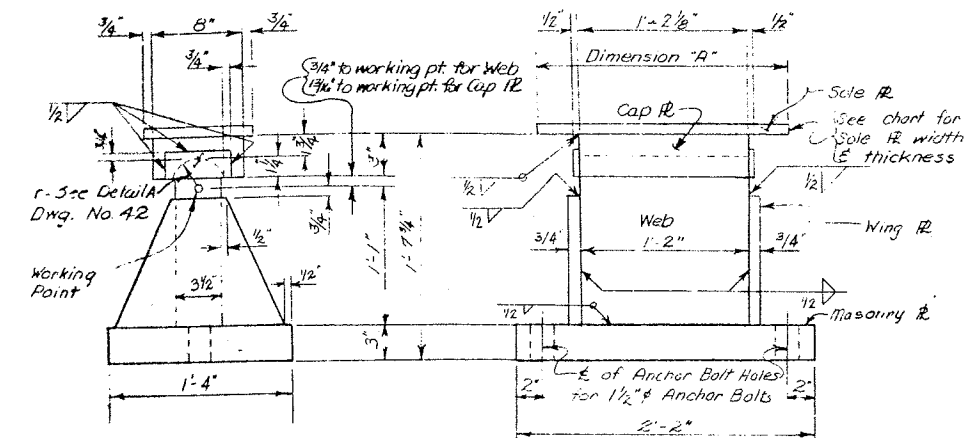
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	1-80-03128 1-481-20116	221	309

**INTERSTATE ROUTE CONNECTION 570**  
**DUTCHMAN INTERCHANGES (PHASE 2)**  
**ONDONAGA COUNTY**

Note: See Miscellaneous Drawing #42 for Detail "A"  
& for Detail of Dowels.



EXPANSION BEARING - TYPE III  
Scale:  $1\frac{1}{2}" = 1'-0"$



FIXED BEARING-TYPE III  
Scale :  $1\frac{1}{2}" = 1'-0"$

BEARING SCHEDULE

SOUTHBOUND LANE

SPAN	GIRDER	BEARING TYPE		SOLE PLATE DIM. "A"	SOLE PLATE THICKNESS		SPAN	GIRDER	BEARING TYPE		SOLE PLATE DIM. "A"	SOLE PLATE THICKNESS	
		EXP.	FIXED		EXP.	FIXED			EXP.	FIXED		EXP.	FIXED
1	1	I	I	1'-2"	3/4	3/4	8	1	I	I	2'-1"	3/4	1
	2	I	I	1'-7"	3/4	3/4		2	I	I	2'-0"	3/4	1
	3	I	I	1'-7"	3/4	3/4		3	I	I	2'-0"	3/4	1
	4	I	I	1'-2"	3/4	3/4		4	I	I	2'-1"	3/4	1
2	1	III	III	1'-11"	7/8	3/4	9	1	I	I	2'-1"	3/4	1
	2	III	III	1'-11"	7/8	3/4		2	I	I	2'-0"	3/4	1
	3	III	III	1'-11"	7/8	3/4		3	I	I	2'-0"	3/4	1 1/2
	4	III	III	1'-11"	7/8	3/4		4	I	I	2'-1"	3/4	1 1/2
3	1	III	III	2'-6"	3/4	3/4	10	1	I	I	2'-2"	3/4	1 1/2
	2	III	III	2'-4"	3/4	3/4		2	I	I	2'-2"	3/4	1 1/2
	3	III	III	2'-4"	3/4	3/4		3	I	I	2'-2"	3/4	1 1/2
	4	III	III	2'-6"	3/4	3/4		4	I	I	2'-2"	3/4	1 1/2
4	1	II	II	2'-8"	3/4	3/4	11	1	I	I	2'-1"	3/4	1 1/4
	2	II	II	2'-2"	1	3/4		2	I	I	2'-0"	3/4	1 1/4
	3	II	II	2'-2"	1	3/4		3	I	I	2'-0"	3/4	1 1/4
	4	II	II	2'-8"	1	3/4		4	I	I	2'-1"	3/4	1 1/4
5	1	II	II	2'-8"	3/4	7/8	12	1	I	I	2'-1"	3/4	1 1/4
	2	II	II	2'-2"	3/4	7/8		2	I	I	2'-0"	3/4	1 1/4
	3	II	II	2'-2"	3/4	7/8		3	I	I	2'-0"	3/4	1 1/4
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6	1	II	II	2'-8"	3/4	3/4	13	1	I	I	2'-1"	3/4	1 1/4
	2	II	II	2'-2"	3/4	1		2	I	I	2'-0"	3/4	1 1/4
	3	II	II	2'-2"	3/4	1		3	I	I	2'-0"	3/4	1 1/4
	4	II	II	2'-8"	3/4	3/4		4	I	I	2'-1"	3/4	1 1/4
7	1	II	I	1'-8"	3/4	1	14	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1		2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1		3	I	I	2'-0"	3/4	1 1/4
	4	II	I	1'-8"	3/4	1		4	I	I	2'-1"	3/4	1 1/4
	1	I	I	2'-1"	3/4	3/4	15	1	I	I	2'-1"	3/4	3/4
	2	I	I	2'-0"	3/4	3/4		2	I	I	2'-0"	3/4	3/4
	3	I	I	2'-0"	3/4	3/4		3	I	I	2'-0"	3/4	3/4
	4	I	I	2'-1"	3/4	3/4		4	I	I	2'-1"	3/4	3/4

ENGINEER S. PARKER

# BEARING SCHEDULE

## NORTH-BOUND LANE

SPAN	GIRDER	BEARING TYPE		SOLE PLATE DIM "A"	SOLE PLATE THICKNESS		SPAN	GIRDER	BEARING TYPE		SOLE PLATE DIM "A"	SOLE PLATE THICKNESS	
		EXP	FIXED		EXP	FIXED			EXP	FIXED		EXP	FIXED
1	1	I	I	1'-2"	3/4	3/4	8	1	I	I	2'-1"	3/4	1
	2	I	I	1'-7"	3/4	3/4		2	I	I	2'-0"	3/4	1
	3	I	I	1'-7"	3/4	3/4		3	I	I	2'-0"	3/4	1
	4	I	I	1'-2"	3/4	3/4		4	I	I	2'-1"	3/4	1
2	1	III	III	1'-11"	7/8	3/4	9	1	I	I	2'-1"	3/4	1
	2	III	III	1'-11"	7/8	3/4		2	I	I	2'-0"	3/4	1 1/8
	3	III	III	1'-11"	7/8	3/4		3	I	I	2'-0"	3/4	1 1/8
	4	III	III	1'-11"	7/8	3/4		4	I	I	2'-1"	3/4	1 1/8
3	1	III	III	2'-6"	3/4	3/4	10	1	I	I	2'-1"	3/4	1 1/8
	2	III	III	2'-4"	3/4	3/4		2	I	I	2'-0"	3/4	1 1/8
	3	III	III	2'-4"	3/4	3/4		3	I	I	2'-0"	3/4	1 1/8
	4	III	III	2'-6"	3/4	3/4		4	I	I	2'-1"	3/4	1 1/8
4	1	II	II	2'-8"	3/4	3/4	11	1	I	I	2'-1"	3/4	1 1/4
	2	II	II	2'-2"	1	3/4		2	I	I	2'-0"	3/4	1 1/8
	3	II	II	2'-2"	1	3/4		3	I	I	2'-0"	3/4	1 1/4
	4	II	II	2'-8"	3/4	3/4		4	I	I	2'-1"	3/4	1 1/4
5	1	II	II	2'-8"	3/4	7/8	12	1	I	I	2'-1"	3/4	1 1/4
	2	II	II	2'-2"	3/4	7/8		2	I	I	2'-0"	3/4	1 1/4
	3	II	II	2'-2"	3/4	1 1/8		3	I	I	2'-0"	3/4	1 1/4
	4	II	II	2'-8"	3/4	7/8		4	I	I	2'-1"	3/4	1 1/4
6	1	II	II	2'-8"	3/4	3/4	13	1	I	I	2'-1"	3/4	1 1/4
	2	II	II	2'-2"	3/4	1		2	I	I	2'-1"	3/4	1 1/4
	3	II	II	2'-2"	3/4	1		3	I	I	2'-0"	3/4	1 1/4
	4	II	II	2'-8"	3/4	3/4		4	I	I	2'-1"	3/4	1 1/4
7	1	II	I	1'-8"	3/4	1	14	1	I	I	2'-1"	3/4	1 1/4
	2	I	I	2'-0"	3/4	1		2	I	I	2'-0"	3/4	1 1/4
	3	I	I	2'-0"	3/4	1		3	I	I	2'-0"	3/4	1 1/4
	4	II	I	1'-8"	3/4	1		4	I	I	2'-1"	3/4	1 1/4
	1	I	I	2'-1"	3/4	3/4	15	1	I	I	2'-1"	3/4	3/4
	2	I	I	2'-0"	3/4	3/4		2	I	I	2'-0"	3/4	3/4
	3	I	I	2'-0"	3/4	3/4		3	I	I	2'-0"	3/4	3/4
	4	I	I	2'-1"	3/4	3/4		4	I	I	2'-1"	3/4	3/4

PROJECT ENGINEER R. PARKER  
IN CHARGE OF J. B. SHERMAN  
DESIGNED BY \_\_\_\_\_  
DESIGN CHECKED BY \_\_\_\_\_  
DETAILED BY J. DURRANT  
DETAIL CHECKED BY H. G. Jones

BRIDGE NO. 2

INTERSTATE ROUTE 481 OVER DEWITT YARDS

BEARINGS

SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PIER 2 NORTHBOUND											
Note: For Pier No.1 see Sheet No.47											
1	5	19	42'-6"	Str.							Longitudinal top & bottom footing.
2	5	29	11'-6"	Str.							Transverse top footing.
3	7	80	11'-6"	Str.							Transverse bottom footing.
4	8	90	4'-6"	Str.							Vertical footings to plinth.
5	5	72	2'-10"	Str.							Vertical footings to plinth.
6	8	90	25'-3'	Str.							Vertical plinth to cap beam.
7	5	72	10'-0"	Str.							Vertical plinth.
8	5	20	35'-0"	Str.							Longitudinal in plinth.
9	4	36	12'-1"	X	11'-6"	3'-8"	4 1/2"				Hoops in columns.
10	11	7	9'-2"	Str.							Longitudinal top of beam.
11	11	2	41'-6"	XI	30'-0"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 3/4"	2'-5"			Longitudinal top of beam.
13	4	4	9'-2"	Str.							Longitudinal top of beam.
14	11	8	8'-1"	Str.							Longitudinal bottom of beam.
15	11	2	36'-1"	Str.							Longitudinal bottom of beam.
16	11	2	39'-9"	Str.							Longitudinal bottom of beam.
17	5	42	3'-8"	XII	3'-1"	7"	5"	5"			Vertical dowel beam to pedestal.
18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"			Hoops in pedestals (interior).
19	6	6	17'-6"	XI	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"	Hoops in pedestals (exterior).
20	5	5	36'-1"	Str.							Longitudinal in sides of beam.
21	5	54	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"			Vertical stirrups in beams.
22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"			Beam end hoop.
23	6	336	7'-3"	Str.							Pile reinforcement.
24	5	7	3'-8"	Str.							Transverse top of beam.
25	8	8	36'-1"	Str.							Longitudinal top crashwall.
26	5	36	3'-8"	Str.							Transverse top crashwall.

PIER 2 SOUTHBOND											
1	5	19	42'-6"	Str.						Longitudinal top & bottom footing.	
2	5	29	11'-6"	Str.						Transverse top footing.	
3	7	80	11'-6"	Str.						Transverse bottom footing.	
4	8	90	4'-6"	Str.						Vertical footings to plinth.	
5	5	72	2'-10"	Str.						Vertical footings to plinth.	
6	8	90	25'-3"	Str.						Vertical plinth to cap beam.	
7	5	72	10'-0"	Str.						Vertical plinth.	
8	5	20	35'-0"	Str.						Longitudinal in plinth.	
9	4	36	12'-1"	II	11'-6"	3'-8"	4'-2"			Hoops in columns.	
10	11	7	9'-2"	Str.						Longitudinal top of beam.	
11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8"	2'-5"		Longitudinal top of beam.	
12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8"	2'-5"		Longitudinal top of beam.	
13	4	4	9'-2"	Str.						Longitudinal top of beam.	
14	11	8	8'-1"	Str.						Longitudinal bottom of beam.	
15	11	2	36'-1"	Str.						Longitudinal bottom of beam.	
16	11	2	39'-9"	Str.						Longitudinal bottom of beam.	
17	5	42	3'-7"	III	3'-0"	7"	5"	5"		Vertical dowel beam to pedestal.	
18	6	6	16'-4"	IX	4'-2"	3'-8"	6'-3/4"	6'-1/2"		Hoops in pedestals (interior).	
19	6	6	17'-6"	VII	3'-8"	5'-9"	1'-10"	3'-8"	6'-3/4"	6'-1/2"	Hoops in pedestals (exterior).
20	5	8	36'-1"	Str.						Longitudinal in sides of beam.	
21	5	84	16'-3"	IX	3'-8"	4'-2"	5'-3/4"	5'-1/2"		Vertical stirrups in beams.	
22	5	14	11'-11"	XVII	3'-1"	3'-1"	5'-9"	1'-10"		Beam end hoop.	
23	6	336	7'-3"	Str.						Pile reinforcement.	
24	5	7	3'-8"	Str.						Transverse top of beam.	
25	8	8	36'-1"	Str.						Longitudinal top crashwall.	
26	5	36	3'-8"	Str.						Transverse top crashwall.	

FLOOR 3 NORTHROUN										
T1	5	19	42'-6"	Str.						Longitudinal top & bottom footing.
T2	5	29	11'-6"	Str.						Transverse top footing.
T3	7	80	11'-6"	Str.						Transverse bottom footing.
V4	8	90	4'-6"	Str.						Vertical footings to plinth.
V5	5	72	2'-10"	Str.						Vertical footings to plinth.
V6	8	90	24'-3"	Str.						Vertical plinth to cap beam.
V7	5	72	8'-1"	Str.						Vertical plinth.
L8	5	16	35'-0"	Str.						Longitudinal in plinth.
S9	4	39	12'-1"	I	11'-6"	3'-8"	4 1/2"			Hoops in columns.
L10	11	7	9'-2"	Str.						Longitudinal top of beam.

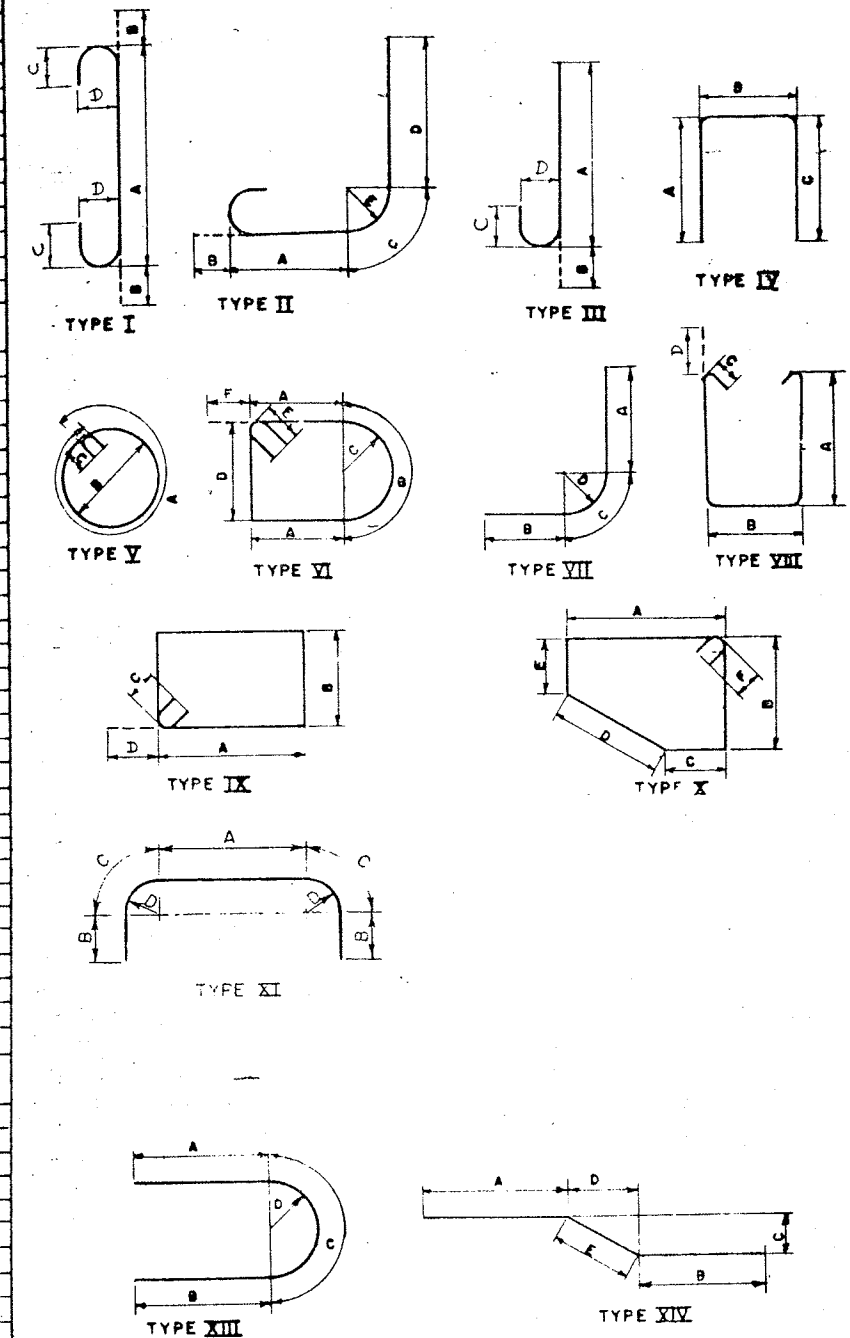
NS MADE	IN CHARGE OF	R. Parker
REVISION	DESIGNED BY	F. Eckel
REVISION	DETAILED BY	J. Durcort
REVISION	TRACED BY	
REVISION	TRACING CHECKED BY	J. F. Darcy

PIER 3 NORTH BOUND (CONT'D)												
MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PBL11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8"	2'-5"				Longitudinal top of beam.
PBL12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8"	2'-5"				Longitudinal top of beam.
PBL13	4	4	9'-2"	Str								Longitudinal top of beam.
PBL14	11	8	8'-1"	Str								Longitudinal bottom of beam.
PBL15	11	2	36'-1"	Str								Longitudinal bottom of beam.
PBL16	11	2	39'-9"	Str								Longitudinal bottom of beam.
PBV17	5	42	3'-9"	III	3'-2"	7"	5"	5"				Vertical dowel beam to pedestal.
PFH18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"				Hoops in pedestals (interior).
PFH19	6	6	17'-6"	VI	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Hoops in pedestals (exterior).
PBL20	5	8	36'-1"	Str								Longitudinal in sides of beam.
PBS21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"				Vertical stirrups in beams.
PBL22	5	14	11'-11"	XII	3'-1"	3'-1"	5'-9"	1'-10"				Beam end hoop.
FFV23	6	336	7'-3"	Str								Pile reinforcement.
PBT24	5	7	3'-8"	Str								Transverse top of beam.
PSL25	8	8	36'-1"	Str								Longitudinal top crashwall.
PST26	5	36	3'-5"	Str								Transverse top crashwall.

PIER 3 SOUTH EOUND												
PFT1	5	19	42'-6"	Str								Longitudinal top & bottom footing.
PFT2	5	29	11'-6"	Str								Transverse top footing.
PFT3	7	80	11'-6"	Str								Transverse bottom footing
PFV4	8	90	4'-6"	Str								Vertical footings to plinth
PFV5	5	72	2'-10"	Str								Vertical footings to plinth.
PCV6	8	90	24'-3"	Str								Vertical plinth to cap beam
PSV7	5	72	8'-1"	Str								Vertical plinth.
PSL8	5	16	35'-0"	Str								Longitudinal in plinth
PCS9	4	39	12'-1"	Y	11'-6 3/8"	3'-8"	4 1/2"					Hoops in columns.
PBL10	11	7	9'-3"	Str								Longitudinal top of beam.
PBL11	11	2	41'-5"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
PBL12	11	2	45'-6"	XI	34'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
PBL13	4	4	9'-2"	Str								Longitudinal top of beam.
PBL14	11	8	8'-1"	Str								Longitudinal bottom of beam.
PBL15	11	2	36'-1"	Str								Longitudinal bottom of beam.
PBL16	11	2	39'-9"	Str								Longitudinal bottom of beam.
PBV17	5	42	3'-8"	III	3'-1"	7"	5"	5"				Vertical dowel beam to pedestal.
APH18	6	6	16'-4"	IX	4'-2"	3'-5"	6 3/4"	6 1/2"				Hoops in pedestals (interior).
APH19	6	6	17'-6"	IX	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Hoops in pedestals (exterior).
PBL20	5	8	36'-1"	Str								Longitudinal in sides of beam.
PBS21	5	84	16'-3"	IX	3'-5"	4'-2"	5 1/2"	5 1/2"				Vertical stirrups in beams
PBL22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"				Beam end hoop.
PFV23	6	336	7'-3"	Str								Pile reinforcement.
PBT24	5	7	3'-8"	Str								Transverse top of beam.
PSL25	8	8	36'-1"	Str								Longitudinal top crashwall.
PST26	5	36	3'-8"	Str								Transverse top crashwall.

PIER 4 : ICRTHOUND										
PFL1	5	19	42'-6"	Str					Longitudinal top & bottom footing.	
PFL2	5	29	11'-6"	Str					Transverse top footing.	
PFL3	7	80	11'-6"	Str					Transverse bottom footing.	
PFV4	8	90	4'-6"	Str					Vertical footings to plinth.	
PFV5	5	72	2'-10"	Str					Vertical footings to plinth.	
PC16	8	90	25'-0"	Str					Vertical plinth to cap beam.	
PSV7	5	72	8'-3"	Str					Vertical plinth.	
PSL8	5	18	35'-0"	Str					Longitudinal top of beam.	
FCS9	4	39	12'-11"	I	11'-6 3/8"	3'-8"	4 1/2"		Hoops in columns.	
PBL10	11	7	9'-2"	Str					Longitudinal top of beam.	
PBL11	11	2	41'-6"	XI	30'9"	1'-8"	3'8 3/4"	2'5"	Longitudinal top of beam.	
PBL12	11	2	45'-6"	XI	34'9"	1'-8"	3'8 3/4"	2'5"	Longitudinal top of beam.	
PBL13	4	4	9'-2"	Str					Longitudinal top of beam.	
PBL14	11	8	8'-1"	Str					Longitudinal bottom of beam.	
PBL15	11	2	36'-1"	Str					Longitudinal bottom of beam.	
PBL16	11	2	39'-9"	Str					Longitudinal bottom of beam.	
PBV17	5	42	3'-7"	III	3'-0"	7"	5"	5"	Vertical dowel beam to pedestal.	
PPH18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"	Hoops in pedestals (interior).	
PPH19	6	6	17'-6"	IX	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"
PBL20	5	8	36'-1"	Str					Longitudinal in sides of beam.	
PBS21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"	Vertical stirrups in beams.	
PBL22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"	Beam end hoop.	
FFV23	6	336	7'-3"	Str					Pile reinforcement.	
PBT24	5	7	3'-8"	Str					Transverse top of beam.	
PSL25	8	8	36'-1"	Str					Longitudinal top crashwall.	
PST26	5	36	3'-8"	Str					Transverse top crashwall.	

## BAR TYPES



ALL DIMENSIONS ARE OUT TO OUT OF BARS

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

BAR LIST #1

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PIER 4 SOUTHBOUND												
1	5	19	42'-6"	Str								Longitudinal top & bottom footing.
2	5	29	11'-6"	Str								Transverse top footing.
3	7	80	11'-6"	Str								Transverse bottom footing.
4	8	90	4'-6"	Str								Vertical footing to plinth.
5	5	72	2'-10"	Str								Vertical footing to plinth.
6	8	90	25'-0"	Str								Vertical plinth to cap beam.
7	5	72	8'-3"	Str								Vertical plinth.
8	5	18	35'-0"	Str								Longitudinal in plinth.
9	4	59	12'-1"	II	11'-6"	3'-8"	4 1/2"					Hoops in columns
10	11	7	9'-2"	Str								Longitudinal top of beam.
11	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal top of beam.
13	4	4	9'-2"	Str								Longitudinal top of beam.
14	11	8	8'-1"	Str								Longitudinal bottom of beam.
15	11	2	36'-1"	Str								Longitudinal bottom of beam.
16	11	2	39'-9"	Str								Longitudinal bottom of beam.
17	5	42	3'-7"	III	3'-0"	7"	5"	5"				Vertical dowel beam to pedestal.
18	6	6	16'-4"	IX	4'-2"	3'-8"	6 3/4"	6 1/2"				Hoops in pedestals (interior).
19	6	6	17'-6"	IX	3'-8"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Hoops in pedestals (exterior).
20	5	9	36'-1"	Str								Longitudinal in sides of beam.
21	5	84	16'-3"	IX	3'-8"	4'-2"	5 3/4"	5 1/2"				Vertical stirrups in beams.
22	5	14	11'-11"	XIII	3'-1"	3'-1"	5'-9"	1'-10"				Beam end hoop.
23	6	336	7'-3"	Str								Pile reinforcement.
24	5	7	3'-8"	Str								Transverse top beam.
25	8	8	36'-1"	Str								Longitudinal top crashwall.
26	5	36	3'-8"	Str								Transverse top crashwall.

## PIER 5 NORTHBOUND (SOUTHBOUND IDENTICAL)

1	6	234	7'-3"	Str								Pile reinforcement
2	10	17	43'-6"	Str								Longitudinal Bottom Footing
3	11	16	43'-6"	Str								Longitudinal Top Footing
4	5	95	8'-6"	Str								Transverse Top & Bottom Footing
5	7	90	4'-0"	Str								Dowels in Columns
6	7	90	24'-8"	Str								Vertical Columns
7	4	63	12'-1"	I	11'-6"	3'-8"	4 1/2"					Stirrups in Columns
8	10	2	36'-1"	Str								Longitudinal Bottom Cap Beam
9	10	2	39'-9"	Str								" " " "
10	10	8	8'-6"	Str								" " " "
11	5	10	36'-1"	Str								" Sides " "
12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				" Top " "
13	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				" " " "
14	11	6	8'-0"	Str								" " " "
15	5	14	13'-1"	XIII	3'-8"	3'-8"	5'-9"	1'-10"				Horizontal Ends " "
16	5	76	13'-10"	IX	4'-2"	2'-6"	5 3/4"	5 1/2"				Stirrups Cap Beam
17	5	42	3'-6"	III	2'-11"	7"	5"	5"				Vertical Pedestals
18	6	6	16'-0"	IX	3'-8"	4'-0"	6 3/4"	6 1/2"				Horizontal Interior Pedestals
19	6	6	17'-5"	IX	3'-7 1/4"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		" Fascia "

## PIER 6 NORTHBOUND

1	6	234	7'-3"	Str								Pile reinforcement
2	10	17	43'-6"	Str								Longitudinal Bottom Footing
3	11	16	43'-6"	Str								" Top "
4	5	95	8'-6"	Str								Transverse Top & Bottom Footing
5	7	90	4'-0"	Str								Dowels in Columns
6	7	90	24'-8"	Str								Vertical Columns
7	4	63	12'-1"	I	11'-6"	3'-8"	4 1/2"					Stirrups in Columns
8	10	2	36'-1"	Str								Longitudinal Bottom Cap Beam
9	10	2	39'-9"	Str								" " " "
10	10	8	8'-6"	Str								" " " "
11	5	10	36'-1"	Str								" Sides " "
12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				" Top " "

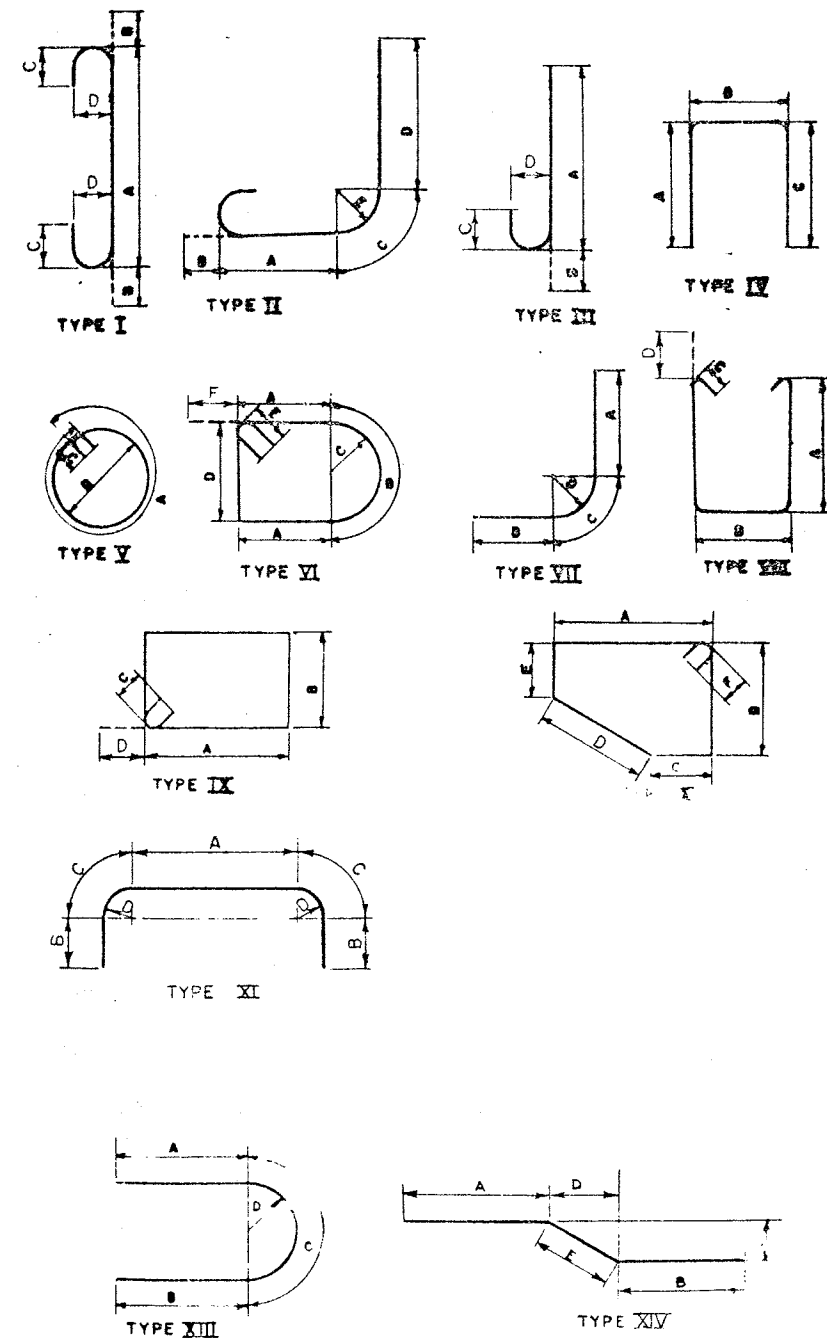
## PIER 6 NORTHBOUND CONT'D

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PBL13	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				Longitudinal Top Cap Beam
PBL14	11	6	8'-0"	Str								" " " "
PBH15	5	14	13'-1"	XIII	3'-8"	3'-8"	5'-9"	1'-10"				Horizontal Ends " "
PBS16	5	76	13'-10"	IX	4'-2"	2'-6"	5 3/4"	5 1/2"				Stirrups Cap Beam
PBV17	5	42	3'-6"	III	2'-11"	7"	5"	5"				Vertical Pedestals
PPH18	6	6	16'-0"	IX	3'-8"	4'-0"	6 3/4"	6 1/2"				Horizontal Interior Pedestals
PPH19	6	6	17'-5"	IX	3'-7 1/4"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		" Fascia "
PIER 6 SOUTHBOUND												
FFV1	6	234	7'-3"	Str								Pile reinforcement
PFL2	10	17	43'-6"	Str								Longitudinal Bottom Footing
PFL3	11	16	43'-6"	Str								" Top "
PFT4	5	95	8'-6"	Str								Transverse Top & Bottom Footing
PFV5	7	90	4'-0"	Str								Dowels in Columns
PCV6	7	90	25'-4"	Str								Vertical Columns
PCS7	4	66	12'-1"	I	11'-6"	3'-8"	4 1/2"					Stirrups in Column
PBL8	10	2	36'-1"	Str								Longitudinal Bottom Cap Beam
PBL9	10	2	39'-9"	Str								" " " "
PBL10	10	8	8'-6"	Str								" " " "
PBL11	5	10	36'-1"	Str								" Sides " "
PBL12	11	2	45'-6"	XI	34'-0"	1'-8"	3'-8 3/4"	2'-5"				" Top " "
PBL13	11	2	41'-6"	XI	30'-9"	1'-8"	3'-8 3/4"	2'-5"				" " " "
PBL14	11	6	8'-0"	Str								" " " "
PBH15	5	14	13'-1"	XIII	3'-8"	3'-8"	5'-9"	1'-10"				Horizontal Ends Cap Beam
PBS16	5	76	13'-10"	IX	4'-2"	2'-6"	5 3/4"	5 1/2"				Stirrups Cap Beam
PBV17	5	42	3'-6"	III	2'-11"	7"	5"	5"				Vertical Pedestals
PPH18	6	6	16'-0"	IX	3'-8"	4'-0"	6 3/4"	6 1/2"				Horizontal Interior Pedestals
PPH19	6	6	17'-5"	IX	3'-7 1/4"	5'-9"	1'-10"	3'-8"	6 3/4"	6 1/2"		Horizontal Fascia Pedestals

FED. RD. DIST. NO.	STATE	PROJECT NO.	DATE	BY
1	N.Y.	1-481-2010	2-23	309

INTERSTATE ROUTE 481 OVER DEWITT YARDS  
CURRENT PROPOSED (PHASE 2)  
ORIGINAL CONTRACT

## BAR TYPES



ALL DIMENSIONS ARE OUT TO OUT OF BAR

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

BAR LIST #2

DRAWING NO. 45 OF 50

IN CHARGE OF: R. Parker  
DESIGNED BY: F. Eckel  
DETAILED BY: J. Duncanson  
TRACING CHECKED BY: J.F. Dancy

[illegible]

PIER 7 SOUTH-BOUND										
1	7	17	41'-6"	Str						Longitudinal bottom of footing.
2	8	15	41'-6"	Str						Longitudinal top of footing.
3	5	29	8'-6"	Str						Transverse top of footing.
4	5	56	8'-6"	Str						Transverse bottom of footing.
5	7	72	4'-0"	Str						Dowels footing to column.
6	7	72	26'-5"	Str						Vertical in columns.
7	4	78	11'-1"	II	10'-1 1/2"	3'-2"	0'-5 3/4"			Hoops in columns.
8	10	2	38'-4"	Str						Longitudinal in bottom of beam.
9	10	6	7'-4"	Str						Longitudinal in bottom of beam.
10	11	4	8'-8"	Str						Longitudinal in top of beam.
11	11	2	40'-0"	XI	30'-3"	1'-2"	3'-8 3/4"	2'-5"		Longitudinal in top of beam.
12	6	6	14'-5"	II	3'-8"	3'-2"	6 3/4"	6 1/2"		Hoops interior pedestals.
13	6	6	15'-2"	II	3'-1 3/4"	5'-0"	1'-7"	3'-2"	6 3/4"	Hoops exterior pedestals.
14	5	12	3'-4"	III	2'-9"	7"	5"	5"		Dowels pier beam to pedestals.
15	5	8	35'-7"	Str						Longitudinal sides of beam.
16	11	2	44'-0"	XI	34'-3"	1'-2"	3'-8 3/4"	2'-5"		Longitudinal in top of beam.
17	10	2	35'-7"	Str						Longitudinal in bottom of beam.
18	4	72	12'-2"	IX	3'-8"	2'-2"	4 1/2"	4 1/2"		Stirrups pier beam.
19	5	12	11'-2"	XII	3'-1"	3'-1"	5'-0"	1'-7"		Hoop end of pier beam.
20	6	156	7'-3"	Str						File reinforcement.

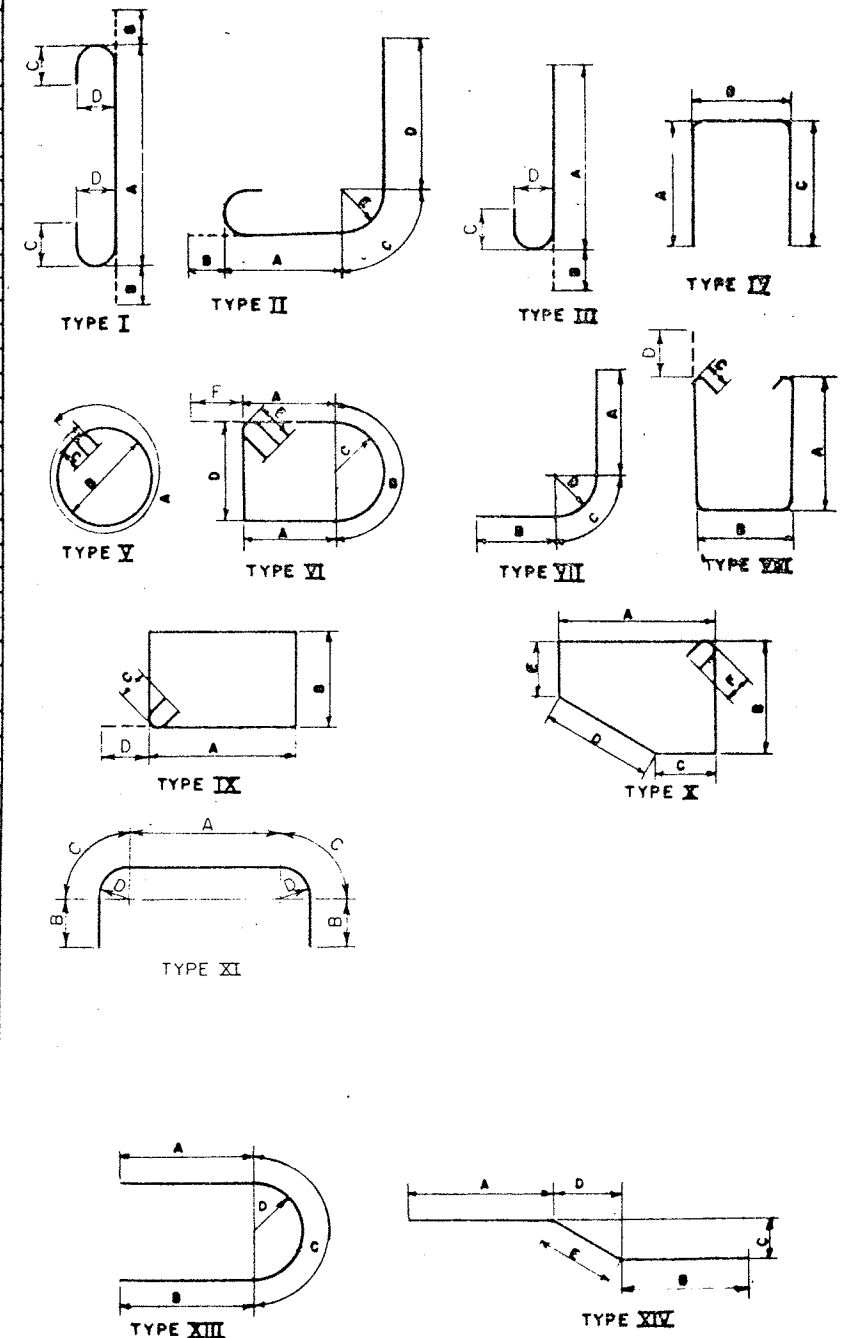
PIER 8 NORTHEOUND											
1	7	17	41'-6"	Str					Longitudinal bottom of footing.		
2	8	15	41'-6"	Str					Longitudinal top of footing.		
3	5	29	8'-6"	Str					Transverse top of footing.		
4	5	56	8'-6"	Str					Transverse bottom of footing.		
5	7	72	4'-0"	Str					Dowels footing to column.		
6	7	72	26'-10"	Str					Vertical in columns.		
7	4	72	11'-1"	I	10'-1 1/2"	3'-2"	5 3/4"		Hoops in columns.		
8	10	2	38'-4"	Str					Longitudinal in bottom of beam.		
9	10	6	7'-4"	Str					Longitudinal in bottom of beam.		
10	11	4	8'-8"	Str					Longitudinal in top of beam.		
11	11	2	40'-0"	II	30'-3"	1'-2"	3'-8 3/4"	2'-5"	Longitudinal in top of beam.		
12	6	6	14'-5"	IX	3'-8"	3'-2"	6 3/4"	6 1/2"	Hoops interior pedestals.		
13	6	6	15'-2"	VI	3'-1 1/2"	5'-0"	1'-7"	3'-2"	6 3/4"	6 1/2"	Hoops exterior pedestals.
14	5	42	3'-4"	III	2'-9"	7"	5"	5"			Dowels pier beam to pedestals.
15	5	8	35'-7"	Str					Longitudinal sides of beam.		
16	11	2	44'-0"	XI	34'-3"	1'-2"	3'-8 3/4"	2'-5"			Longitudinal in top of beam.
17	10	2	35'-7"	Str					Longitudinal in bottom of beam.		
18	4	72	12'-1"	IX	5'-8"	2'-2"	4 1/2"	4 1/2"			Stirrups pier beam.

IN CHARGE OF R. Parker  
DESIGNED BY F. Eckel  
DETAILED BY J. Burrows  
TRACED BY \_\_\_\_\_  
TRACING CHECKED BY J. F. Dorsey

[illegible]

PIER 9 ORTHOBLD										
PFL1	7	17	41'-6"	Str					Longitudinal bottom of footing.	
PFL2	8	15	41'-6"	Str					Longitudinal top of footing	
PFT3	5	29	8'-6"	Str					Transverse top of footing	
PFT4	5	36	8'-6"	Str					Transverse bottom of footing.	
PV5	7	72	4'-0"	Str					Dowels footing to column.	
PV6	7	72	25'-10"	Str					Vertical in columns.	
PO5	4	69	11'-1"	Y	10-1/2"	3'-2"	0-3/4"		Hoops in columns	
PBL8	10	2	38'-4"	Str					Longitudinal in bottom of beam	
PBL9	10	6	7'-4"	Str					Longitudinal in bottom of beam.	
PBL10	11	4	8'-8"	Str					Longitudinal in top of beam.	
PBL11	11	2	40'-0"	XI	30'-3"	1'-2"	2'-8 1/2"	2'-5"	Longitudinal in top of beam.	
PPH12	6	6	14'-3"	IX	3'-8"	3'-2"	6 3/4"	6 1/2"	Hoops interior pedestals.	
PPH13	6	6	15'-2"	XI	5'-4 1/2"	5'-0"	1'-7"	3'-2"	6 3/4"	Hoops exterior pedestals.
PBV14	5	42	3'-4"	III	2'-9"	7"	5"	5"	Dowels pier beam to pedestals	
PBL15	5	8	35'-7"	Str					Longitudinal sides of beam.	
PBL16	11	2	44'-0"	XI	34'-3"	1'-2"	3'-5 1/4"	2'-5"	Longitudinal in top of beam.	
PBL17	10	2	35'-7"	Str					Longitudinal in bottom of beam.	
PBS18	4	72	12'-2"	IX	3'-8"	2'-2"	4 1/2"	4 1/2"	Shrups pier beam.	
PBH19	5	12	11'-2"	XIII	3'-1"	3'-1"	5'-0"	1'-7"	Hoop end of pier beam.	
FFV20	6	156	7'-3"	Str					Pile reinforcement.	

## BAR TYPES



ALL DIMENSIONS ARE OUT TO OUT OF BARS

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER DEWITT YARDS

BAR LIST # 3



## PIER 9 SOUTHBOUND

[illegible]

## PIER 10 NORTH BOUND

L1	9	32	4'-6"	Str.						Longitudinal (top & bottom) footing.
T3	5	108	8'-6"	Str.						Transverse (top & bottom) footing.
V4	7	72	4'-6"	Str.						Dowels footing to column.
V5	7	72	24-10'	Str.						Vertical in columns.
S6	4	67	1'-1"	XI	10'-1½'	3'-2"	5¾"			Hoops in columns.
L7	10	2	38'3"	Str.						Longitudinal in bottom cap beam.
L8	10	3	7'-10"	Str.						Longitudinal in bottom cap beam.
L9	10	2	35'-3"	Str.						Longitudinal in bottom cap beam.
I10	11	4	8'-8"	Str.						Longitudinal in top cap beam.
L11	11	2	39'-8"	XI	29'-11"	1'-2"	3'-6½"	2'-5"		Longitudinal in top cap beam.
L12	11	2	43'-8"	XII	33'-11"	1'-2"	3'-8½"	2'-5"		Longitudinal in top cap beam.
N13	5	E	35'-2"	Str.						Longitudinal in S.C.S. cap beam.
M14	5	12	11'-2"	XIII	3'-1"	3'-1"	5'-0"	1'-7"		Horizontal ends of cap beam.
S15	5	SG	12'-3"	IX	7'-8"	2'-6"	5¼"	5½"		Stirrups in cap beam.
PV16	5	AZ	3'-4"	XIV	2'-9"	7'"	5'"	5'"		Vertical in pedestals.
RH17	6	G	13'-3"	IX	3'-4"	3'-2"	6¾"	6½"		Horizontal interior pedestals.
RH18	6	G	14'-11"	XVI	5'-0"	5'-0"	1'-7"	3'-2"	6¾"/6½"	Horizontal fascia pedestals.
VY19	6	1GB	7'-3"	Str.						Vertical in piles.

PIER 0 SOUTHBOUND

7	9	32	4'-6"	Str						Longitudinal (top & bottom) footing.
T3	5	108	8'-6"	Str						Transverse (top & bottom) footing.
V4	7	72	4'-6"	Str						Dowels footing to column.
V5	7	72	24'-3"	Str						Vertical in columns.
56	2	56	11'-1"	I	10 1/2	3'-2"	5 3/4			Hoops in columns.
L7	10	2	38'-3"	Str						Longitudinal in bottom cap beam.
L8	10	6	7'-10"	Str						Longitudinal in bottom cap beam.
L9	10	2	35'-3"	Str						Longitudinal in bottom cap beam.
L10	11	4	8'-8"	Str						Longitudinal in top cap beam.
L11	11	2	33'-8"	XI	29 1/4	1'-2"	3 5/8	2'-5"		Longitudinal in top cap beam.
L12	11	2	43'-8"	XI	33 1/4	1'-2"	3 5/8	2'-5"		Longitudinal in top cap beam.
L13	5	8	35'-2"	Str						Longitudinal in sides cap beam.
H14	5	12	11'-2"	XIII	3'-1"	3'-1"	5'-0"	1'-7"		Horizontal ends of cap beam.
S15	5	56	12'-3"	IX	3'-8"	2'-0"	5 3/4	5 1/2		Stirrups in cap beam.
V16	5	42	3'-4"	XII	2'-3"	7"	5"	5"		Vertical in pedestals.
H17	6	6	13'-9"	IX	3'-4"	3'-2"	6 3/4	6 1/2		Horizontal interior pedestals.
H18	6	6	14'-11"	VI	3'-0"	5'-0"	1'-7"	3'-2"	6'4" 6'10"	Horizontal fascia pedestals.
V19	6	168	7'-3"	Str						Vertical in piles.

AS MADE	IN CHARGE OF	R. Parker
REVISION	DESIGNED BY	= Eckel
REVISION	DETAILED BY	J. DURRANT
REVISION	TRACED BY	
REVISION	TRACING CHECKED BY	J.F.D.

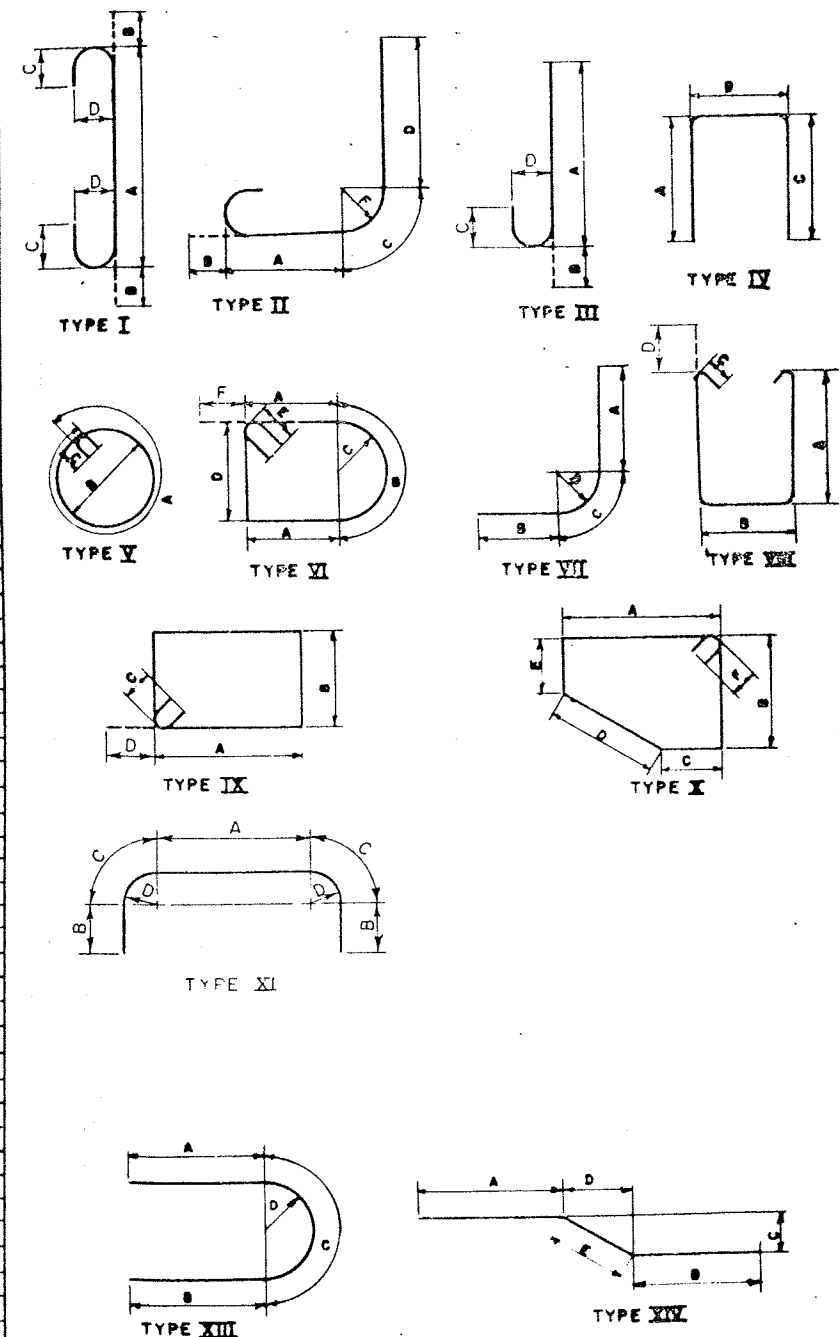
PIER 1 SOUTHBOUND (PIER 1 NORTHBOUND IDENTICAL)

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FED. RD. REG. NO.	STATE	FEDERAL AD PROJ. CT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-690-3-080 1-481-2-110	225	309

**INTERSTATE ROUTE CONNECTION 570**  
**BUTTERNUT INTERCHANGE (PHASE 2)**  
**ONEODAGA COUNTY**

## BAR TYPES

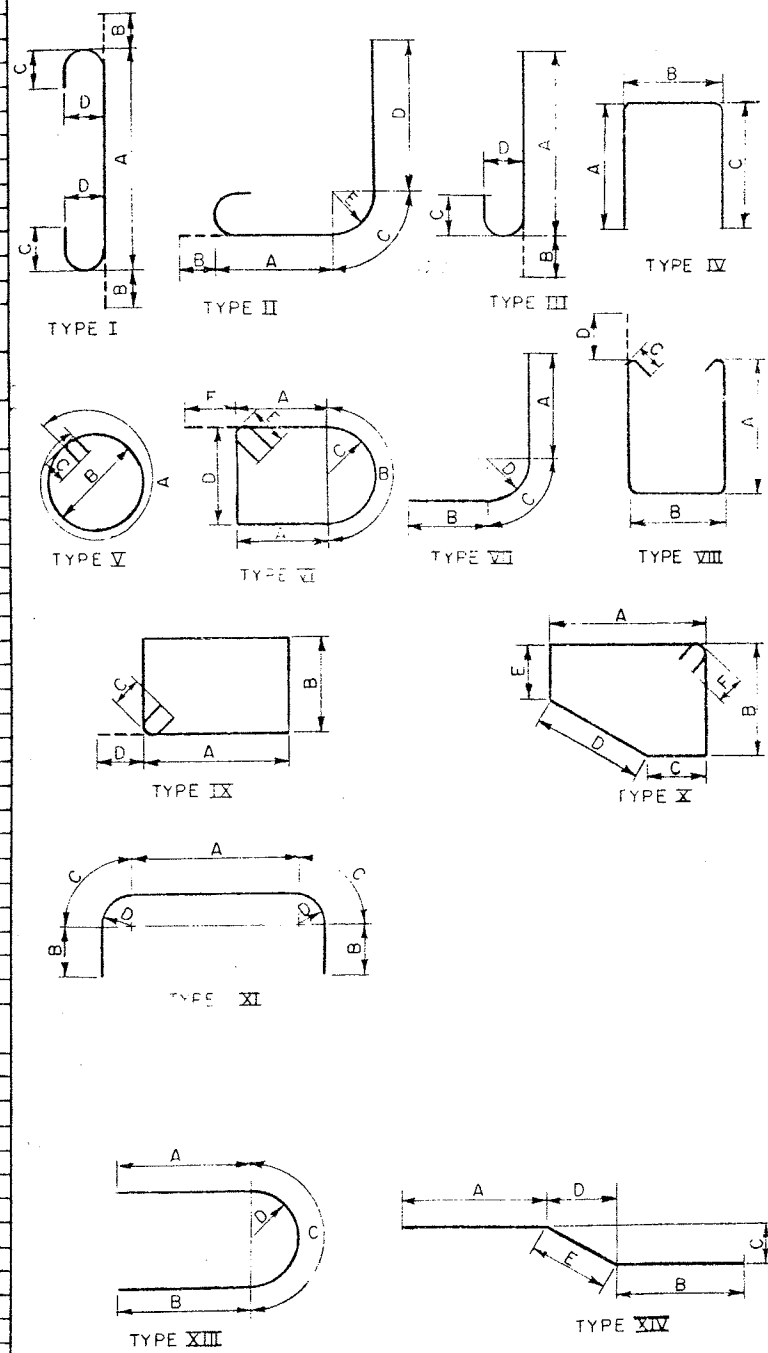


ALL DIMENSIONS ARE OUT TO OUT OF BARS

BRIDGE NO. 2  
INTERSTATE ROUTE 481 OVER JEWITT YARDS

BAR LIST #4

BAR TYPES



MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	22'-6"	Str								Vertical in columns
PCS6	4	60	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	22'-6"	Str								Vertical in columns
PCS6	4	60	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	19'-2"	Str								Vertical in columns
PCS6	4	51	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	LOCATION
PFL1	10	14	41'-6"	Str								Longitudinal in bottom of footing
PFL2	8	16	41'-6"	Str								Longitudinal in top of footing
PFT3	5	102	5'-6"	Str								Transverse top & bottom of footing
PFV4	7	72	4'-3"	Str								Dowels footing to column
PCV5	7	72	19'-2"	Str								Vertical in columns
PCS6	4	51	10'-11"	Str	10'-11"	3'-2"	0'-4 1/2"					Hoops in columns
PBS7	4	72	12'-2"	Str	3'-8"	2'-2"	4'-2"	4'-2"				Stirrups in cap beam
PBL8	10	2	37'-10"	Str								Longitudinal in bottom of beam
PBL9	10	6	7'-4"	Str								Longitudinal in bottom of beam
PBL10	11	4	7'-8"	Str								Longitudinal in top of beam
PBL11	11	2	39'-8"	Str	29'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PPH12	6	6	13'-9"	Str	3'-4"	3'-2"	6'-4"	6'-2"				Hoops in pedestals (interior)
PPH13	6	6	14'-11"	Str	3'-0"	5'-0"	1'-7"	3'-2"	6'-2"	6'-2"		Hoops in pedestals (exterior)
PBV14	5	42	3'-1"	Str	2'-6"	7"	5"	5"				Dowels pier beam to pedestals
PBL15	5	8	35'-3"	Str								Longitudinal in sides of beam
PBL16	11	2	43'-8"	Str	33'-11"	1'-2"	3'-2"	2'-5"				Longitudinal in top of beam
PBL17	10	2	35'-3"	Str								Longitudinal in bottom of beam
PBL18	5	12	11'-2"	Str	3'-1"	3'-1"	5'-0"	1'-7"				Horizontal in ends of beam
FFV19	6	144	7'-3"	Str								Reinforcement in piles

DESIGNED BY	DESIGN CHECKED BY	DETAILED BY	DETAIL CHECKED BY

PROJECT ENGINEER: E. Farber  
IN CHARGE OF: E. Farber  
DESIGNED BY: J. J. Farber  
DESIGN CHECKED BY: J. J. Farber  
DETAILED BY: J. J. Farber  
DETAIL CHECKED BY: J. J. Farber

## SOUTH ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	LOCATION
AFL1	5	36	34'-4"	Str.										Longitudinal-Top & Bottom footing.
AFL2	5	28	23'-0"	Str.										Longitudinal-Top & Bottom footing.
AFL3	5	14	8'-6"	Str.										Longitudinal-Top & Bottom footing.
AFL4	5	14	9'-0"	Str.										Longitudinal-Top & Bottom footing.
AFT5	5	311	8'-6"	Str.										Transverse-Top & Bottom footing.
AFT6	7	76	8'-6"	Str.										Transverse-Bottom footing.
AWY7	5	17	3'-4"	Str.										Vertical-Wingwall.
AFV8	5	120	3'-0"	Str.										Dowels.
AWY9	7	36	12'-11"	Str.										Vertical-Wingwall.
AWY10	5	41	13'-0"	Str.										Vertical-Wingwall.
AWY11	7	36	13'-0"	Str.										Vertical-Wingwall.
ABY12	5	40	12'-0"	Str.										Backwall-Vertical.
ABY13	5	24	13'-7"	Str.										Backwall-Vertical.
ABY14	7	105	12'-0"	Str.										Backwall-Vertical.
ABW15	5	28	23'-0"	Str.										Wingwall-Horizontal.
ABW16	5	28	26'-0"	Str.	20'-0"	5'-4"	6"	6"	8 1/2"					Wingwall-Horizontal.
ABW17	5	28	5'-8"	Str.										Curtainwall-Horizontal.
ABW18	5	20	8'-0"	Str.										Wingwall-Horizontal.
ABW19	5	10	7'-8"	Str.										Wingwall-Horizontal.
ABW20	5	36	40'-6"	Str.										Backwall-Horizontal.
ABH21	5	28	22'-3"	Str.										Backwall-Horizontal.
ABH22	5	28	22'-11"	Str.										Backwall-Horizontal.
AFY23	7	243	4'-2"	Str.										Dowels.
ABY24	5	68	4'-3"	Str.	2'-3"	5 1/2"	2'-3"							Vertical-Header.
AHL26	5	4	33'-6"	Str.										Longitudinal-Header.
AHL27	5	2	22'-3"	Str.										Longitudinal-Header (Mall).
AHL28	5	2	22'-11"	Str.										Longitudinal-Header "
ABY29	7	66	13'-7"	Str.										Backwall-Vertical.
ABY30	5	44	5'-5 1/2"	Str.	2'-3"	1'-2"	2'-3"							Header-Vertical (Mall).
AWY31	5	58	4'-2"	Str.	8"	3'-11"								Parapet-Vertical.
AWY32	5	58	3'-11"	Str.										Parapet-Vertical.
ACH33	5	6	23'-6"	Str.										Parapet-Horizontal (Exterior).
ACH34	5	6	25'-10"	Str.	5'-4"	19'-10"	6"	6"	8 1/2"					Parapet-Horizontal (Exterior).
ACH35	5	6	5'-8"	Str.										Parapet-Horizontal (Exterior).
AWY36	5	18	8'-3 1/2"	Str.	3'-11"	8"	3'-11"							Curtainwall-Vertical.
ACH37	5	6	5'-4"	Str.										Parapet-Horizontal.
ACH38	5	6	8'-9"	Str.	3'-0"	5'-1"	6"	6"	8 1/2"					Parapet-Horizontal.
ACH39	5	26	3'-8"	Str.										Parapet & Curtainwall.
APH40	5	21	10'-4"	Str.	3'-10"	3'-6"	3'-3"	0'-4"	3'-3"					Pedestal-Horizontal.
AFY41	5	24	3'-11"	Str.										Pedestal-Vertical.
APH42	5	3	10'-4"	Str.	3'-10"	3'-6"	3'-3"							Horizontal-Pedestal.
FFY43	6	582	7'-3"	Str.										Pile reinforcement.

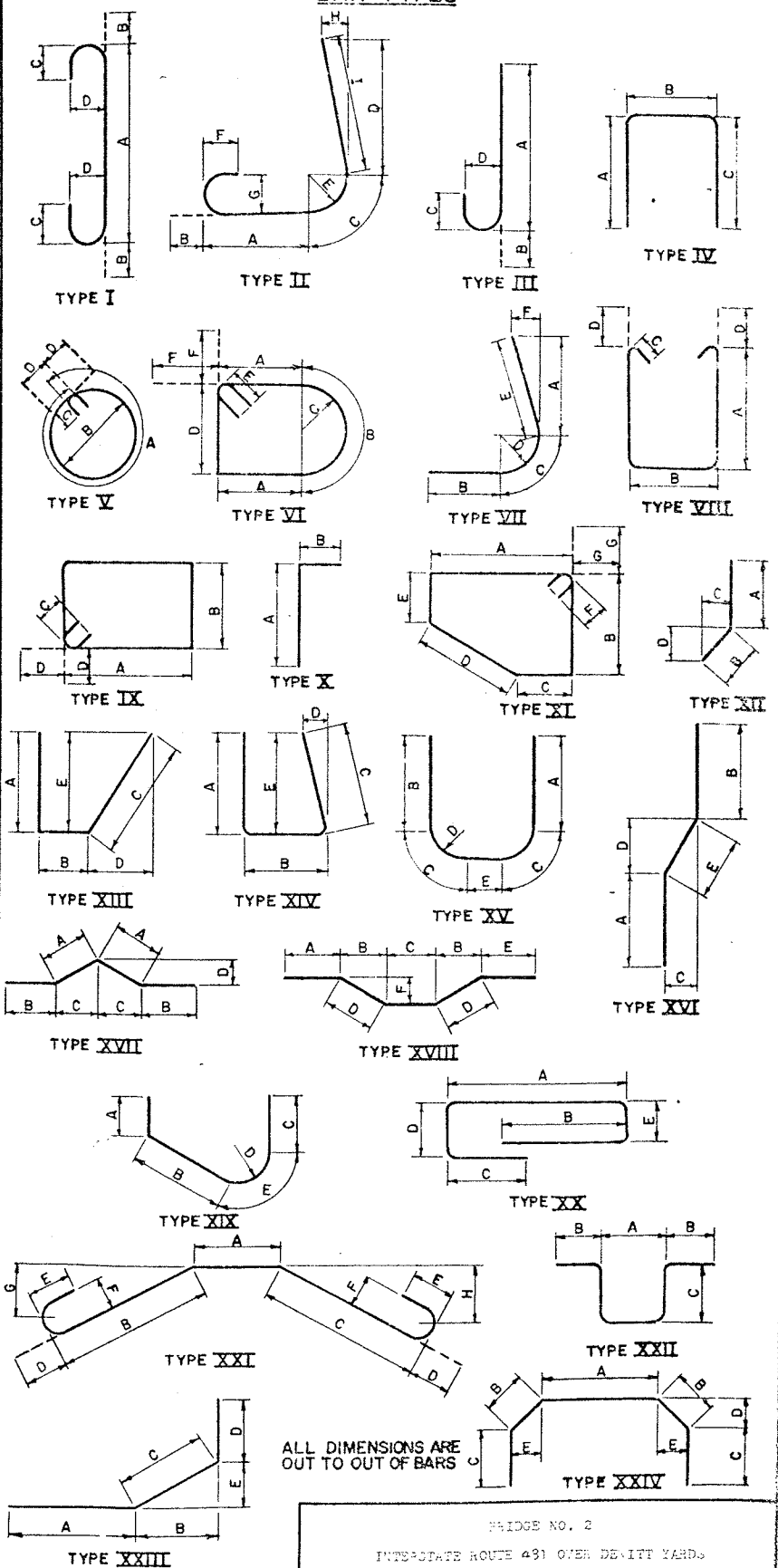
## NORTH ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	LOCATION
AFL1	5	40	33'-4"	Str.										Longitudinal (Top & Bottom) footing.
AFL2	5	20	17'-6"	Str.										Longitudinal (Top & Bottom) footing.
AFL3	5	20	8'-7"	Str.										Longitudinal (Top & Bottom) footing.
AFL4	5	360	6'-0"	Str.										Transverse (Top & Bottom) footing.
AFV5	5	316	2'-10"	Str.										Dowels.
AFV6	5	24	4'-3"	Str.										Vertical pedestals.
AWV7	5	12	Varies	Str.	Varies from 10'-9" to 11'-2" in equal incre.									Vertical (Fr) west exterior wingwall.
AWV8	5	10	Varies	Str.	Varies from 9'-10" to 10'-1" in equal incre.									Vertical west interior wingwall.
AWV9	5	10	Varies	Str.	Varies from 10'-10" to 11'-8" in equal incre.									Vertical east interior wingwall.
AWV10	5	12	Varies	Str.	Varies from 10'-2" to 10'-7" in equal incre.									Vertical east exterior wingwall.
AWV11	5	16	8'-4"	Str.	3'-11"	8'	3'-11"							Vertical curtainwall sidewalks.
AWV12	6	50	4'-10"	Str.	4'-3"	8'	0"							Vertical parapets.
AWV13	6	50	4'-3"	Str.										Vertical parapets.
ABV14	5	38	Varies	Str.	Varies from 8'-11" to 9'-8" in equal incre. 2 sets									Vertical backwalls.
ABV15	5	24	Varies	Str.	Varies from 10'-6" to 11'-4" in equal incre.									Vertical mallwall.
ABV16	5	48	6'-0"	Str.	2'-6"	1'-2"	2'-6"							Vertical sidewalk on mallwall.
ABW17	5	22	5'-8"	Str.										Horizontal curtainwalls.
ABW18	5	22	19'-10"	Str.	14'-2"	5'-4"	6"	6"	8 1/2"					Horizontal outside wingwall (fr).
ABW19	5	16	16'-6"	Str.										Horizontal outside wingwall (rear).
ABW20	5	32	7'-7"	Str.										Horizontal inside wingwall (fr).
ABH21	5	36	40'-1"	Str.										Horizontal backwall.
ABH22	5	40	24'-0"	Str.										Horizontal mallwall (bottom).
APH24	5	6	10'-6"	Str.	3'-3"	4'-2"	3'-5"							Horizontal fascia pedestals.
APH25	5	18	9'-8"	Str.	3'-3"	3'-4"	3'-9"							Horizontal interior.
ACH26	5	6	5'-8"	Str.										Horizontal curtainwall sidewalks.
ACH27	5	6	19'-10"	Str.	14'-2"	5'-4"	6"							Horizontal outside wingwall sidewalks.
ACH28	5	6	16'-6"	Str.										Horizontal outside wingwall sidewalks.
ACH29	5	12	7'-6"	Str.										Horizontal inside wingwall sidewalks.
ACH30	5	12	1'-8"	Str.										Horizontal inside wingwall sidewalks.
ACH31	5	4	24'-0"	Str.										Horizontal mallwall sidewalks.
FFV32	6	384	7'-3"	Str.										Vertical all piles.
ABV33	5	40	Varies	Str.	Varies from 8'-9" to 9'-6" in equal incre. 2 sets									Vertical in back wall (Rear).
AWV34	5	22	Varies	Str.	Varies from 10'-5" to 10'-9" in equal incre.									Vertical in back of west ext. wingwall.
ABV35	5	64	Varies	Str.	Varies from 10'-6" to 11'-4" in equal incre.									Vertical in back of mallwall.
AWV36	5	2	11'-2"	Str.										Vertical in curtainwall (west).
ABH37	5	32	1'-8"	Str.										Horizontal in interior curtain walls.
AWV38	5	2	10'-7"	Str.										Vertical in curtainwall (East).
AWV39	5	22	Varies	Str.	Varies from 9'-9" to 10'-3" in equal incre.									Vertical in back of (East) ext wingwall.
AWV40	5	4	11'-3"	Str.										Vertical in interior (East) curtain wall.
AWV41	5	4	10'-6"	Str.										Vertical in interior (West) curtain wall.

FED. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-481-20-10	227	309

INTERSTATE ROUTE CONNECTION 570  
BUTTERFIELD INTERCHANGE (PHASE 2)  
ONONDAGA COUNTY

## BAR TYPES



ALL DIMENSIONS ARE  
OUT TO OUT OF BARS

BRIDGE NO. 2

INTERSTATE ROUTE 491 OVER DEWITT YARDS

BAR LIST #6

PROJECT ENGINEER *K. Marker*  
IN CHARGE OF *E. E. E.*  
DESIGNED BY  
DESIGN CHECKED BY  
DETAILED BY *A. S. S.*  
DETAIL CHECKED BY *A. S. S.*

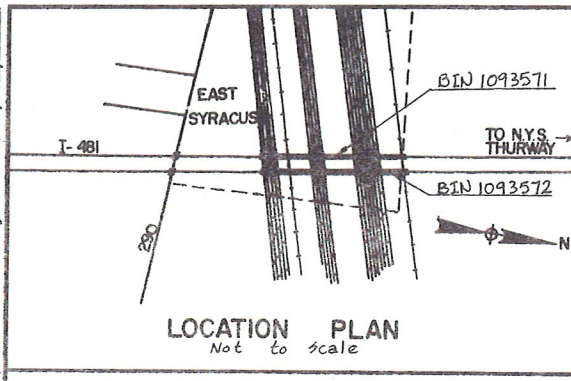


BW 1093572

D251436

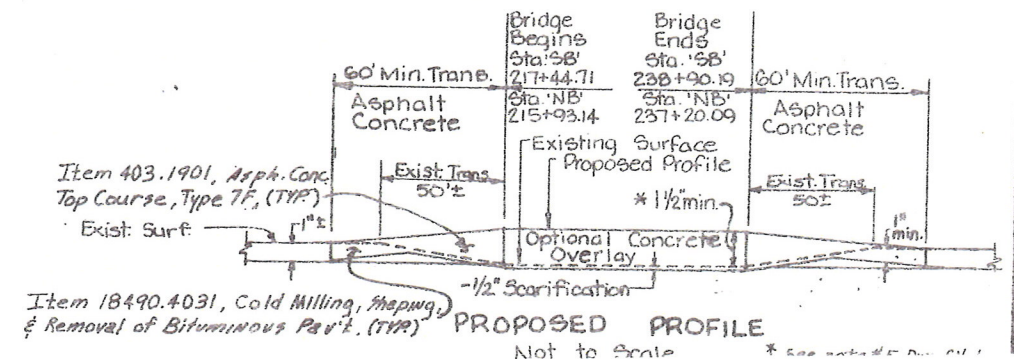
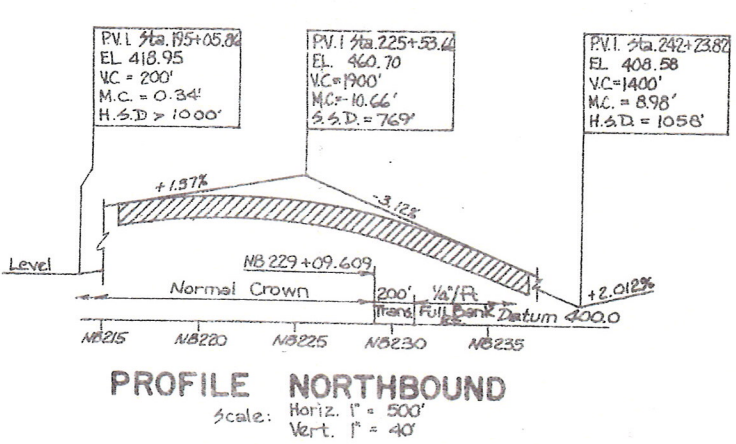
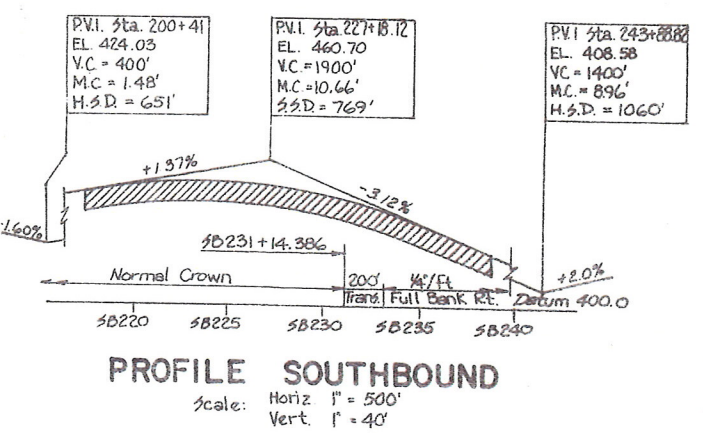
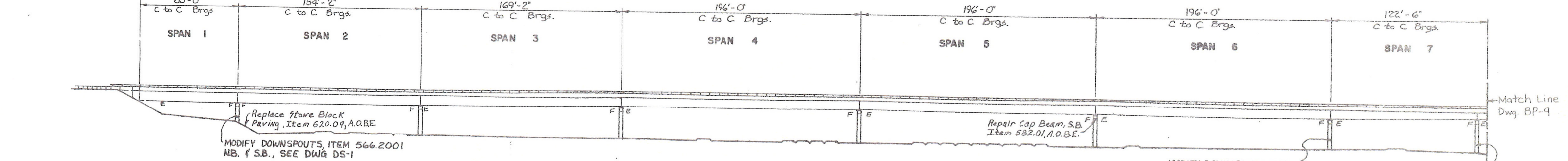
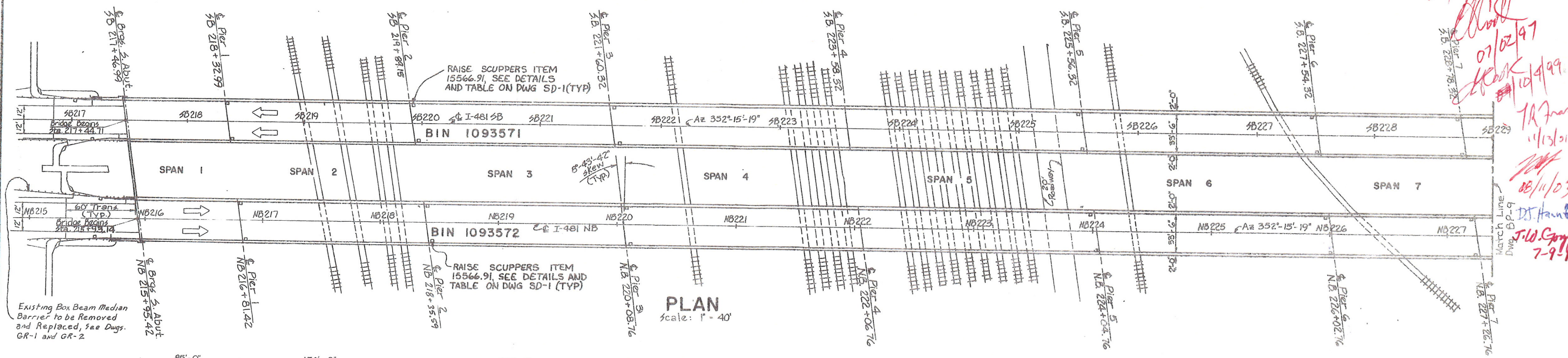
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INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

Record plans were reviewed on 3/20/14 by GA. No suspect ACM was identified.



LOAD RATING	H/L LOADING
INVENTORY	OPERATING
H/L 21.7 (39T) L.F. *	H/L 36.3 (65T) L.F. *

Northbound and Southbound Bridges  
\* L.F. = Load Factor

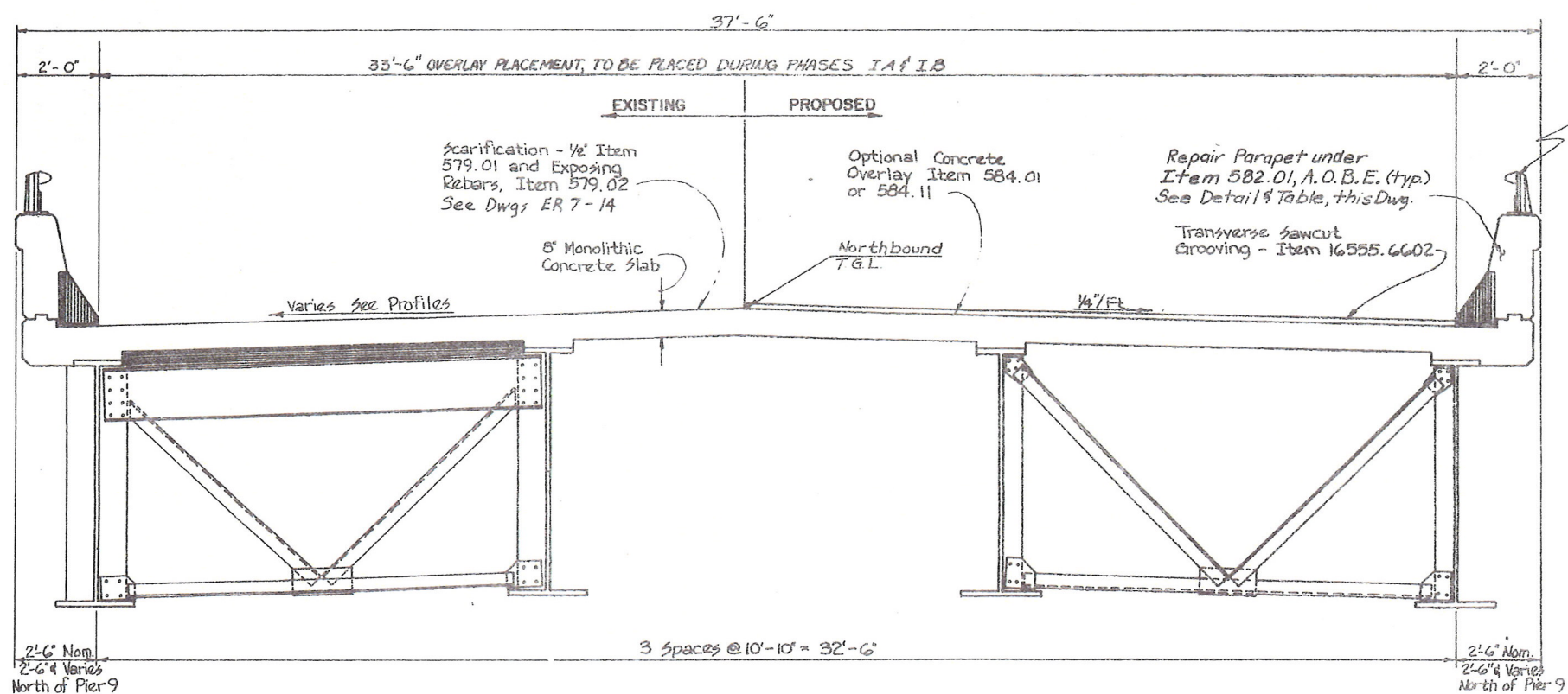


AS - BUILT REVISIONS	
SIGNATURE	DATE
BIN 1093571 AND 1093572 SB AND NB OVER CONRAIL	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING NO.	SCALE
DATE	SHEET NO.



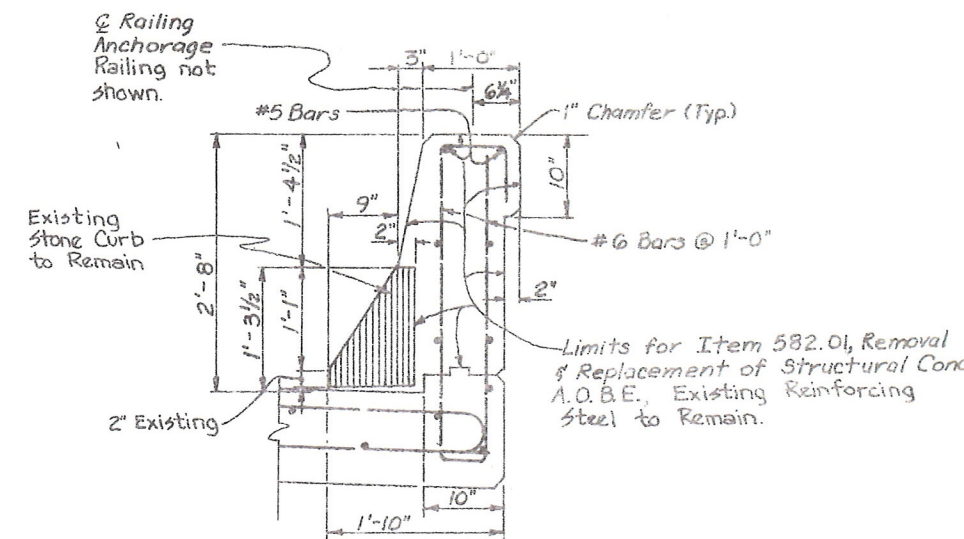
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	IR-431-(174) SH: 481-(174)	39	6

INTERSTATE ROUTE CONNECTION 570  
BUTTERNUT INTERCHANGE - PHASE 2  
BUTTERNUT INTERCHANGE TO COLLAMER,  
SH 70-7 ONONDAGA COUNTY

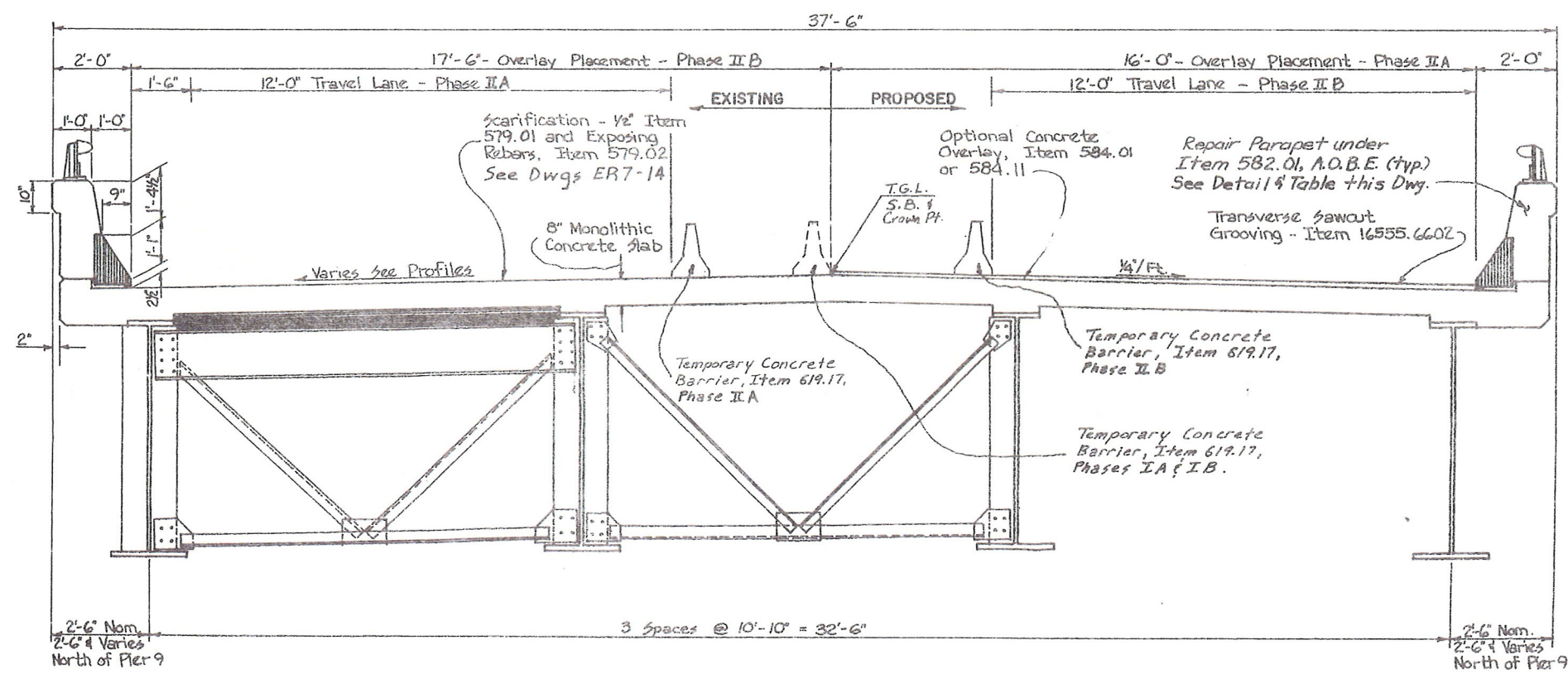


**TYPICAL BRIDGE SECTION**  
(N.B. Bridge Looking North)  
Scale: 1/2" = 1'-0"

Existing 1 Rail Bridge Railing to Remain (Typ.)



**PARAPET REPAIR DETAIL**  
Scale: 1" = 1'-0"



**TYPICAL BRIDGE SECTION**  
(S.B. Bridge Looking North)  
Scale: 1/2" = 1'-0"

REPAIR OF PARAPET WALL Item 582.01			
BIN 1093571		BIN 1093572	
SPAN #	EST. LENGTH	SPAN #	EST. LENGTH
4, Rt. Side	170 ft.	10, Rt. Side	55'
4, Lt. Side	70 ft.	15, Lt. Side	20'

AS - BUILT REVISIONS

SIGNATURE DATE

BIN 1093571 AND 1093572  
SB AND NB OVER CONRAIL

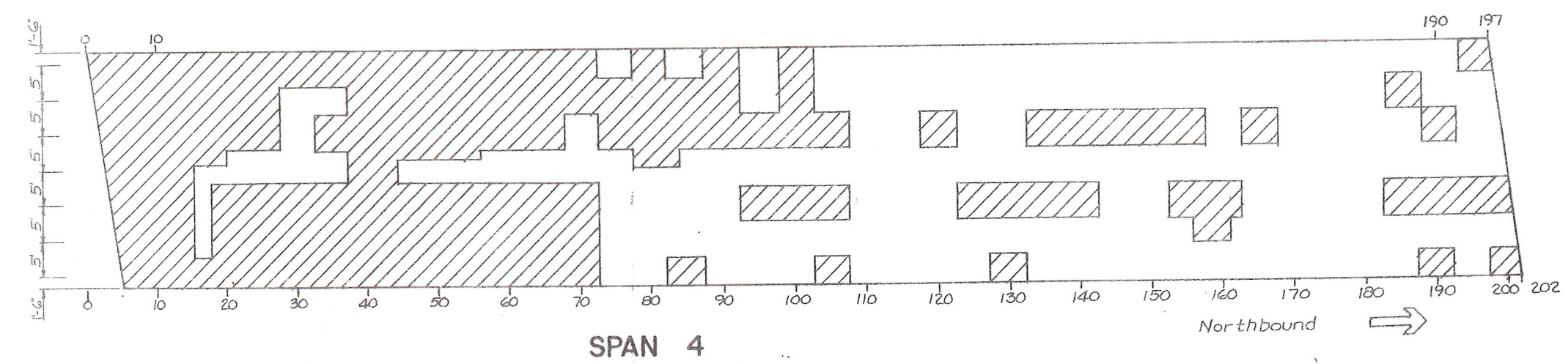
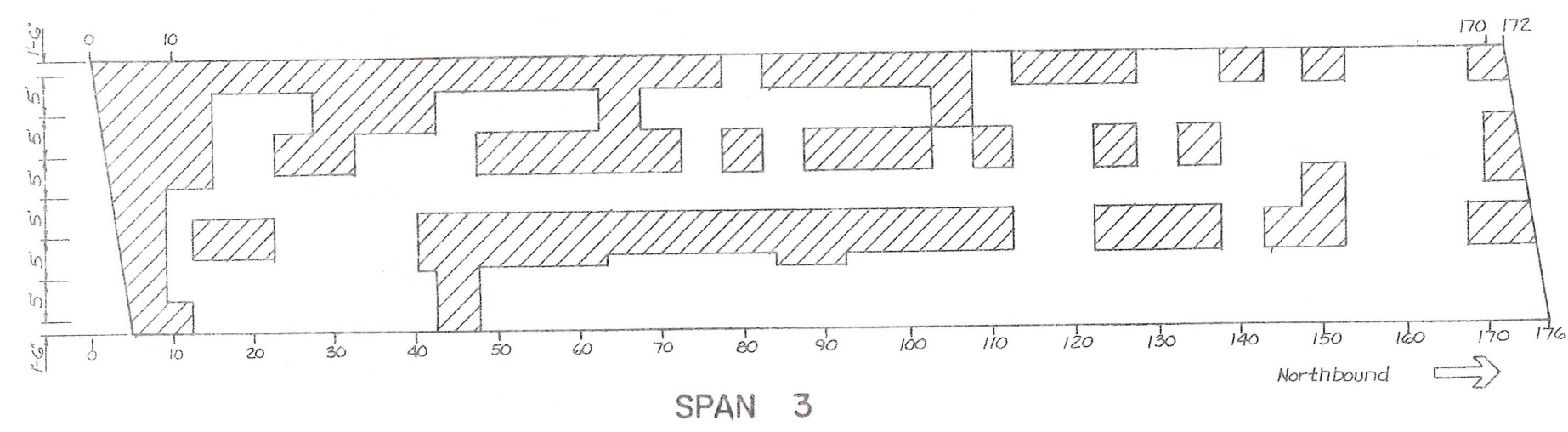
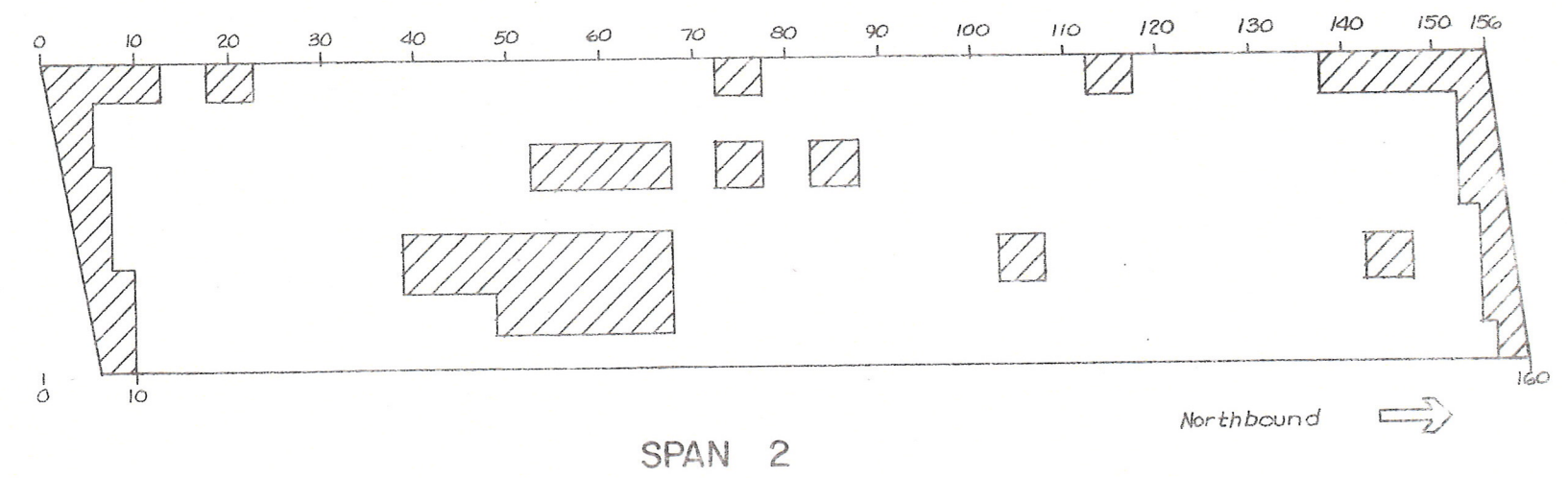
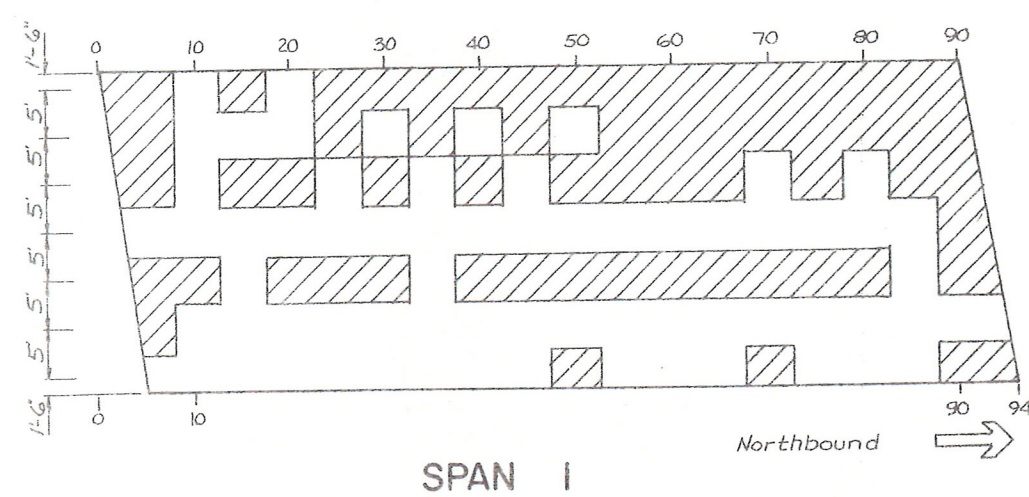
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

DRAWING NO. BPI0 SCALE As shown DATE REGION 3 SHEET 39

HC 47-2 (5/76) IN CHARGE OF [Signature] DESIGNED BY [Signature] CHECKED BY [Signature] ESTIMATED BY [Signature] CHECKED BY [Signature] DRAFTED BY [Signature] CHECKED BY [Signature] DATE 1/24/85



FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-431-(174) BH1-481-0174	62	66
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

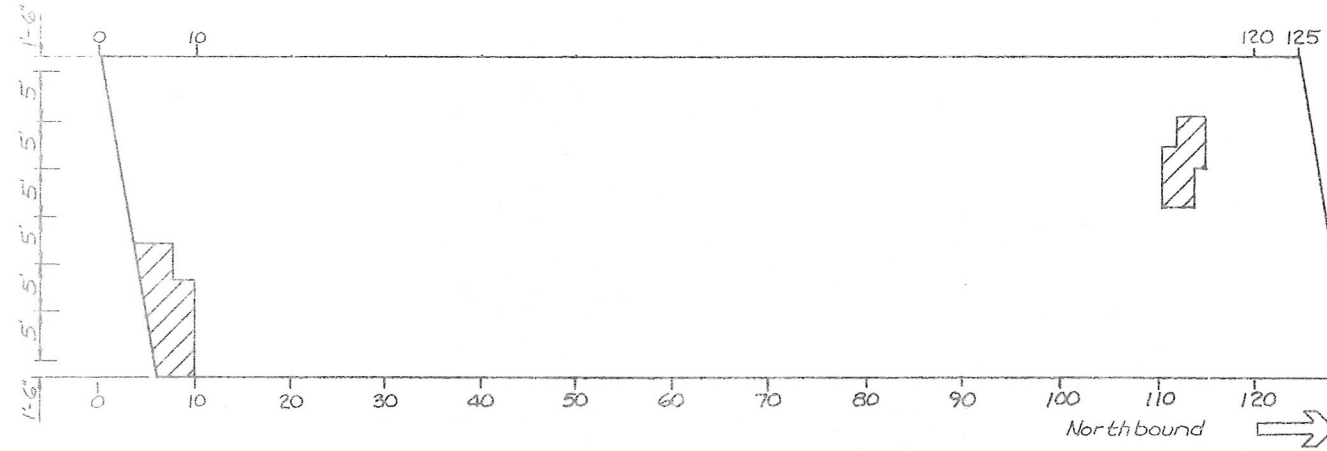


Approximate Area for Exposing  
Reinforcing Bars, Item 579.02

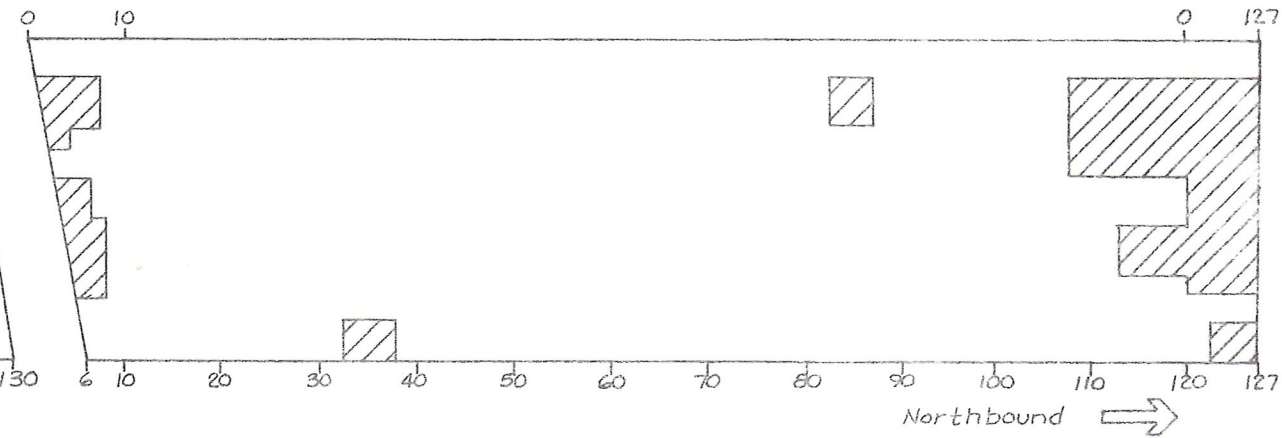
AS - BUILT REVISIONS	
SIGNATURE	DATE
BIN 1093572 I-481 NORTHBOUND OVER CONRAIL	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING No. ER-11	SHEET NO. 62



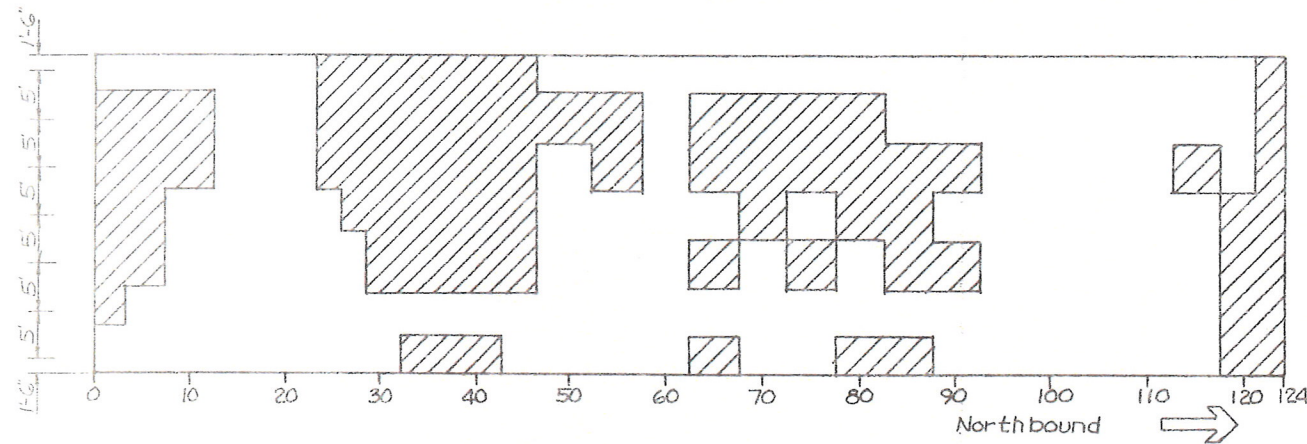
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEET
1	N.Y.	IR-481-(174) BRI 481 (174)	64	66
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				



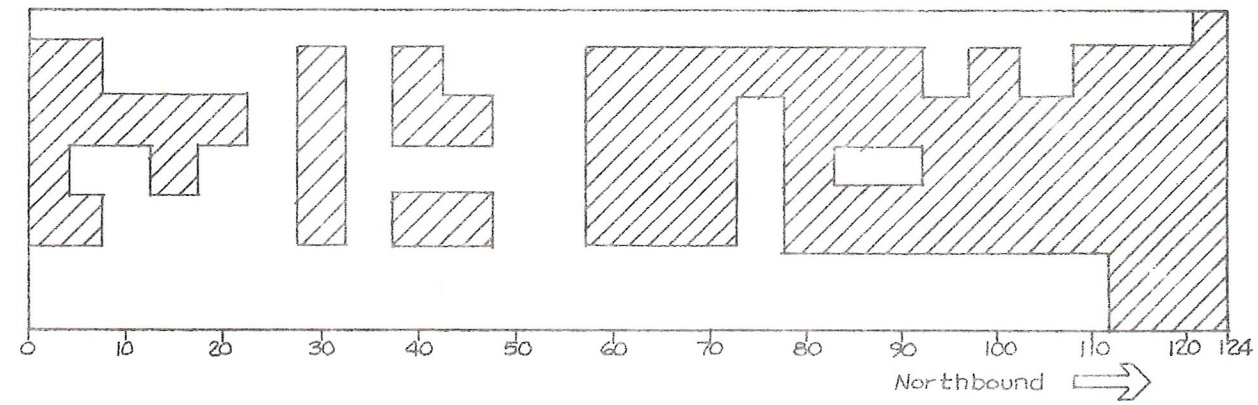
SPAN 9



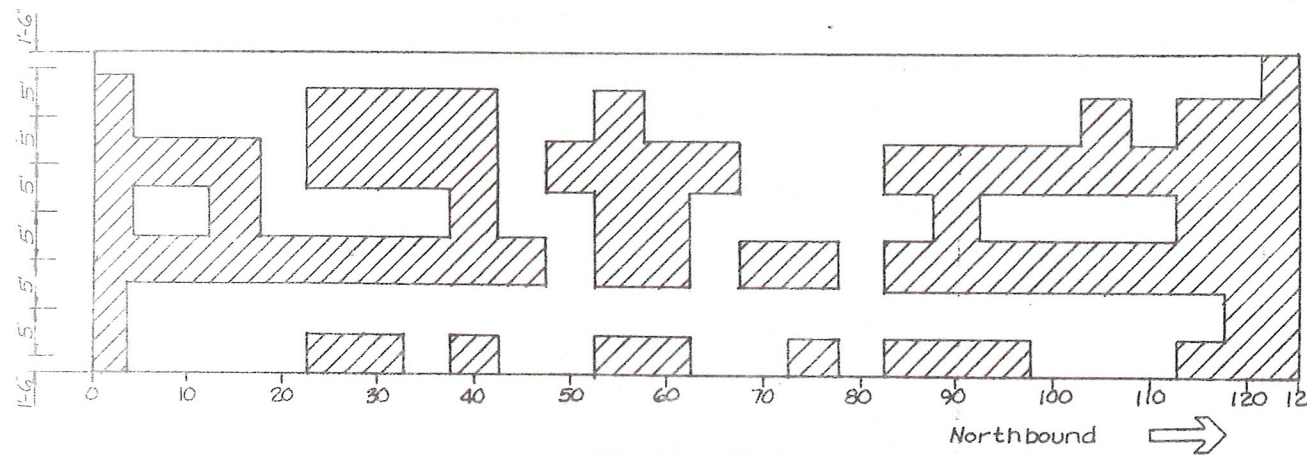
SPAN 10



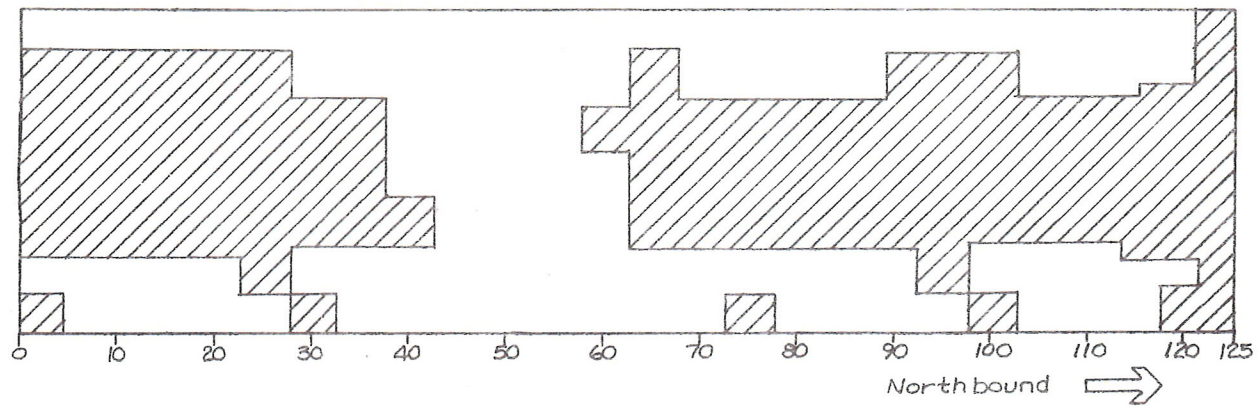
SPAN 11



SPAN 12



SPAN 13



SPAN 14



Approximate Area for Exposing  
Reinforcing Bars, Item 579.02

AS - BUILT REVISIONS

SIGNATURE

DATE

**BIN 1093572 I-481 NORTHBOUND  
OVER CONRAIL**

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

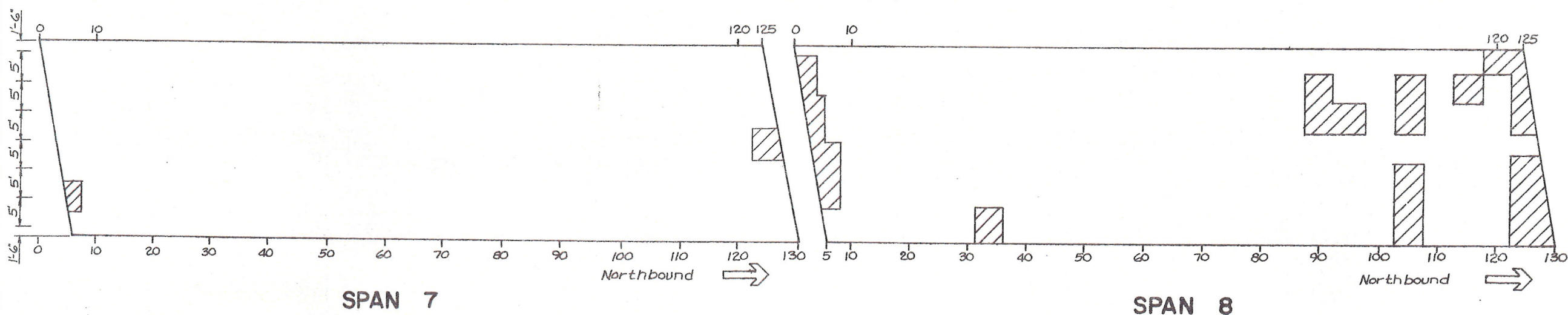
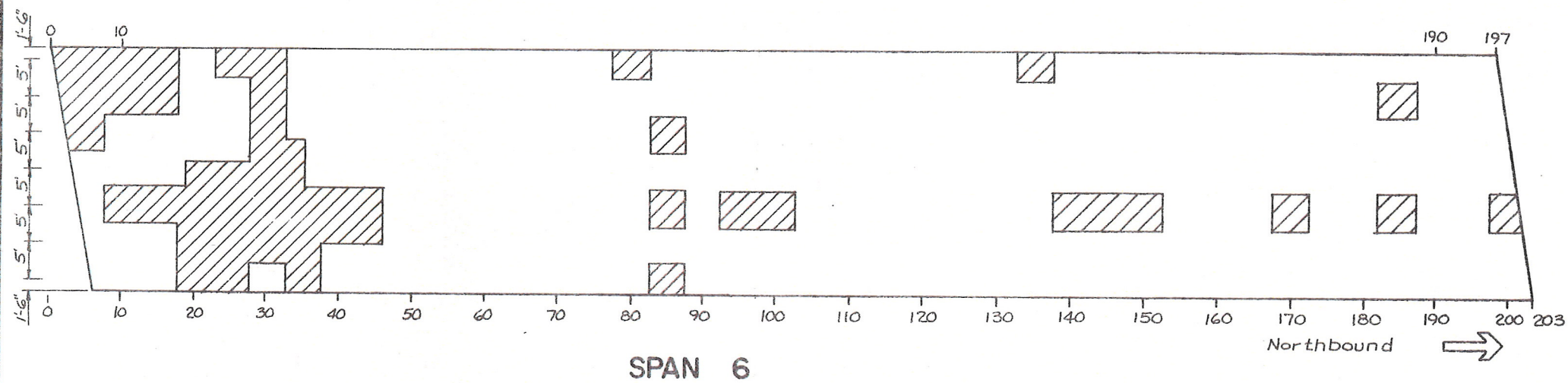
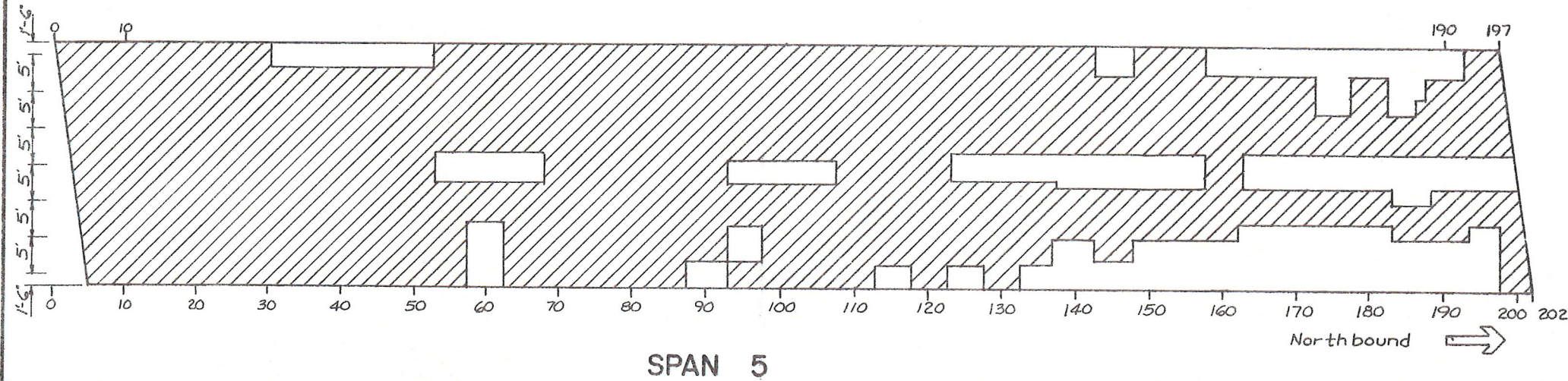
DRAWING No. ER-13	SCALE	DATE	REGION 3	SHEET NO. 64
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IN CHARGE OF: Nick De Vries DESIGNED BY: Thomas J. Lipp CHECKED BY: David De Vries ESTIMATED BY: Thomas J. Lipp CHECKED BY: David De Vries DRAFTED BY: Thomas J. Lipp DATE: 1/24/85



FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TC SH
1	N.Y.	IR-491-(174) BN1-491-(174)	63	6
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

IN CHARGE OF *Michael DeCicca* DESIGNED BY *Michael DeCicca* CHECKED BY *Michael DeCicca* ESTIMATED BY *Michael DeCicca* DRAFTED BY *Michael DeCicca* CHECKED BY *Michael DeCicca* DATE 1/24/85



Approximate Area for Exposing  
Reinforcing Bars, Item 579.02

AS - BUILT REVISIONS

SIGNATURE

DATE

**BIN 1093572 1-481 NORTHBOUND  
OVER CONRAIL**

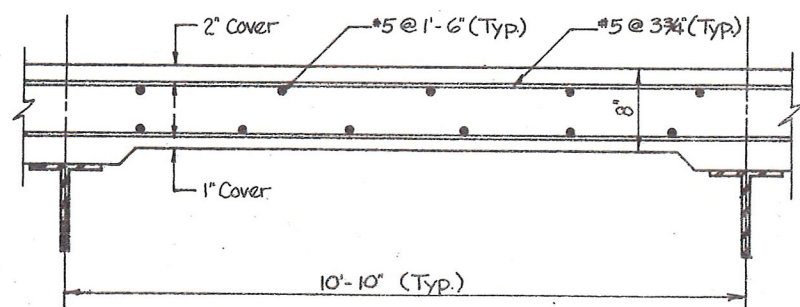
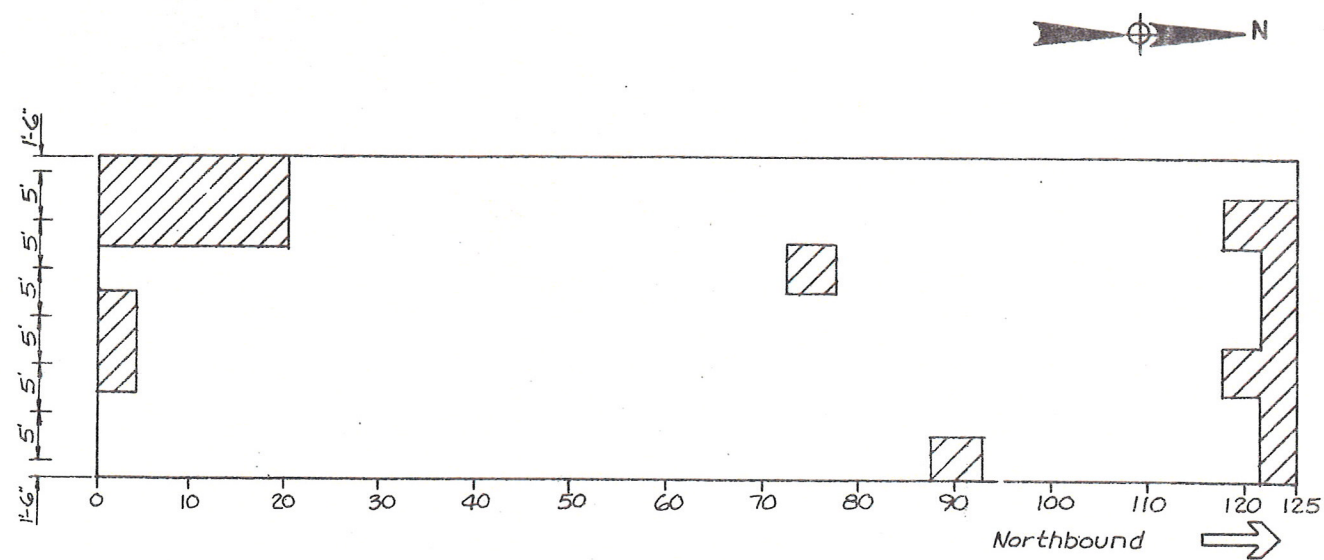
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

DRAWING NO. ER-12 SCALE DATE REGION 3 SHEET NO. 63



FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.
1	N.Y.	IR-481-01740 SH1 481-01740	62
INTERSTATE ROUTE CONNECTION 57			
BUTTERNUT INTERCHANGE - PHASE 2			
BUTTERNUT INTERCHANGE TO COLLA			
SH 70-7 ONONDAGA COUNTY			

HC 47-2 (5/76)  
IN CHARGE OF *Robert J. Poirier*  
DESIGNED BY *Thomas H. Poirier*  
CHECKED BY *Thomas H. Poirier*  
ESTIMATED BY *Thomas H. Poirier*  
DRAFTED BY *Thomas H. Poirier*  
CHECKED BY *Thomas H. Poirier*  
DATE 1/24/85



TOP BAR REINFORCEMENT  
Not to scale

Approximate Area for Exposing  
Reinforcing Bars, Item 579.02

AS - BUILT REVISIONS	
SIGNATURE	DATE
BIN 1093572 I-481 NORTHBOUND OVER CONRAIL	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING NO. ER-14	SCALE DATE REGION 3

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	IR-481-(174) BHI-481-(174)	3	66
INTERSTATE ROUTE CONNECTION 570				
BUTTERNUT INTERCHANGE - PHASE 2				
BUTTERNUT INTERCHANGE TO COLLAMER, SH 70-7 ONONDAGA COUNTY				

## GENERAL NOTES

Design Specifications New York State Department of Transportation  
Standard Specifications for Highway Bridges with all provisions in effect  
as of August 1985.

The Load Ratings are in accordance with the AASHTO "Manual for Maintenance  
Inspection of Bridges - 1978".

Material and Construction Specifications: Standard Specifications,  
Construction and Materials, New York State Department of  
Transportation, Office of Engineering, dated January 2, 1985 with current  
additions and modifications.

## BRIDGE RECONSTRUCTION NOTES

The Contractor's attention is directed to the fact that, due to the nature  
of reconstruction projects, the exact extent of reconstruction work cannot  
always be accurately determined prior to the commencement of work.  
These Contract Documents have been prepared based on field inspection  
and other information available at the time. Actual field conditions may  
require modifications to construction details and work quantities.  
The Contractor shall perform the work in accordance with field conditions.

The Contractor shall perform all work with care so that any materials which are  
to remain the property of the State will not be damaged. If the  
Contractor damages any materials which are to remain in place, or  
which are to remain the property of the State, the damaged materials  
shall be repaired or replaced in a manner satisfactory to the  
Engineer at the expense of the Contractor.

Whenever items in the Contract require materials to be removed and  
disposed of, the cost of supplying a disposal area and transportation to  
that area shall be included in the unit price bid for those items.

During removal operations, the Contractor shall not be allowed to drop  
waste concrete, debris and other material to the area below the  
bridge except where the plans specifically permit the dropping of material.  
Platforms, nets, screens or other protective devices shall be used to  
catch the material. If the Engineer determines that adequate protective  
devices are not being employed, the work shall be suspended until  
adequate protection is provided.

All material falling on the area below and adjacent to the bridge shall be  
removed and disposed of by the Contractor.

The cost of furnishing, installing, maintaining, removing and disposing  
of all platforms, nets, screens or other protective devices shall be  
included in the unit bid price of the appropriate items of the Contract.

## SPECIAL NOTES

- The Contractor's attention is directed to the fact that these highways will be  
designated as Restricted Highways under this contract.
- The Contractor's attention is directed to subsection 105-09, "Work  
Affecting Railroads."
- For additional existing details of the bridges, see the Contract Record  
Plans FISH 70-7. These Plans are available in the Region 3 Office  
at 333 East Washington Street, Syracuse, New York.
- The Contractor shall schedule his bridge rehabilitation work on this project  
such that no scarification be left incomplete nor reinforcing steel left  
exposed over the winter months (November 15 - April 1).
- Special Notes for Optional Overlay Profiles, Scarification and Exposing  
Reinforcing Bars - see Dwg.
- The cost of all joint material will be included in the price bid for the various  
items of the contract, unless otherwise specified on the Plans.
- All concrete surfaces receiving new concrete shall be sandblasted. Just prior to the  
application of new concrete, the surfaces shall be air cleaned, wet down and coated  
with a thin coating of 1:1 mortar or neat cement paste thoroughly brushed into  
the surface. It will not be necessary to brush the mortar into surfaces made  
inaccessible by mesh or closely spaced reinforcement when so determined by  
the Engineer. There will be no separate payment for this work. The cost shall be  
included in the bid price for the various concrete items in the Contract.

## INDEX

DWG. NO.	SHEET NO.	DESCRIPTION
	1	Title Sheet
	2	Summary Quantities
	3	General Notes
GR-1-2	4-5	Guide Rail Sheets
MPT 1-23	6-28	Maintenance and Protection of Traffic
EQ-1	29	Quantity Estimate by Structure
BP-1	30	BIN 1093510
BP-2	31	BIN 1093520
BP-3	32	BIN 1093530
BP-4	33	BIN 1093540
BP-5	34	BIN 1093550
BP6-BP7	35-36	BIN 1093561 and 1093562
BP8-BP10	37-39	BIN 1093571 and 1093572
BPII-BPI2	40-41	BIN 1093671 and 1093672
JDI-JD5	42-46	Joint Details
SD-1	47	Scupper Details
DS-1	48	Modifying Downspouts
RC-1	49	Railing Replacement Clamps
SN1-SN2	50-51	Special Notes
ERI-ER15	52-66	Exposing Rebar Details

## WORK TO BE DONE

(NOT NECESSARILY IN SEQUENCE)

	1093510	1093520	1093530	1093540	1093550	1093561	1093562	1093571	1093572	1093671	1093672
Scarify Structural Slab	•	•	•	•	•	•	•	•	•	•	•
Expose Reinforcing Bars	•	•	•	•	•	•	•	•	•	•	•
Transverse Saw Cut Grooving of Structural Slab Surface	•	•	•	•	•	•	•	•	•	•	•
Install Armoring Angle	•	•	•	•	•	•	•	•	•	•	•
Install Armored Joints with Compression Seals	•	•	•	•	•	•	•	•	•	•	•
Vertically adjust Open Armored Joint					•			•	•		
Vertically adjust Finger Joints								•	•		
Repair Parapet Wall								•	•		
Place Optional Concrete Overlay	•		•	•	•	•		•	•	•	•
CLEAN DOWNSPOUTS					•			•	•		
Replace Stone Block Paving								•	•		
Repair Abutment Backwalls	•	•	•	•	•	•	•			•	•
Replace Existing Railing Clamps	•	•	•	•	•	•	•			•	•
Alter Drop Inlets								•	•		
Vert. Adjust. Bridge Drain. Dev.								•	•		
Repair Cap Beams								•			
MODIFY DOWNSPOUTS								•	•		
Place Micro Silica Overlay		•					•				

## AS - BUILT REVISIONS

SIGNATURE

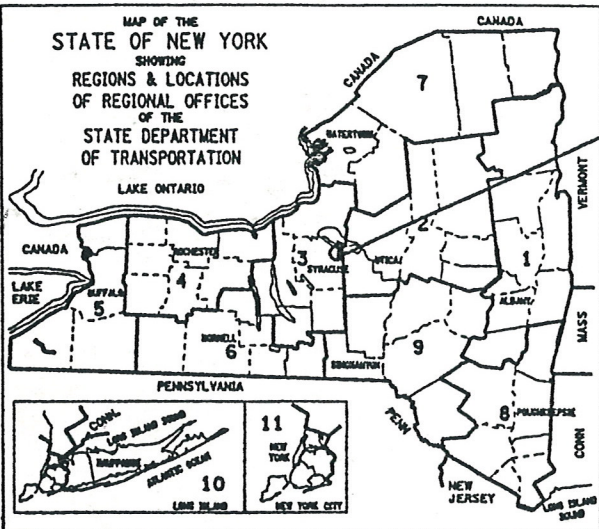
DATE

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

DRAWING NO. SCALE DATE REGION 3 SHEET 3



DESIGNED BY: *Wick* CHECKED BY: *John E. Fitch* ESTIMATED BY: *John E. Fitch* DRAFTED BY: *John E. Fitch* CHECKED BY: *John E. Fitch*



PROJECT LOCATION



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
OFFICE OF ENGINEERING

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO

VOLUME 1 OF 2

432 SHEETS ONONDAGA COUNTY CONTRACT D259214

F.A. PROJECT

3/3 1093572

2003

D259214

Record plans were reviewed on 3/20/14 by GA.  
There were notes on page 4 for the removal of asbestos-containing caulking and miscellaneous ACM.  
On page 59, there are asbestos removal notes.

STANDARD SHEETS

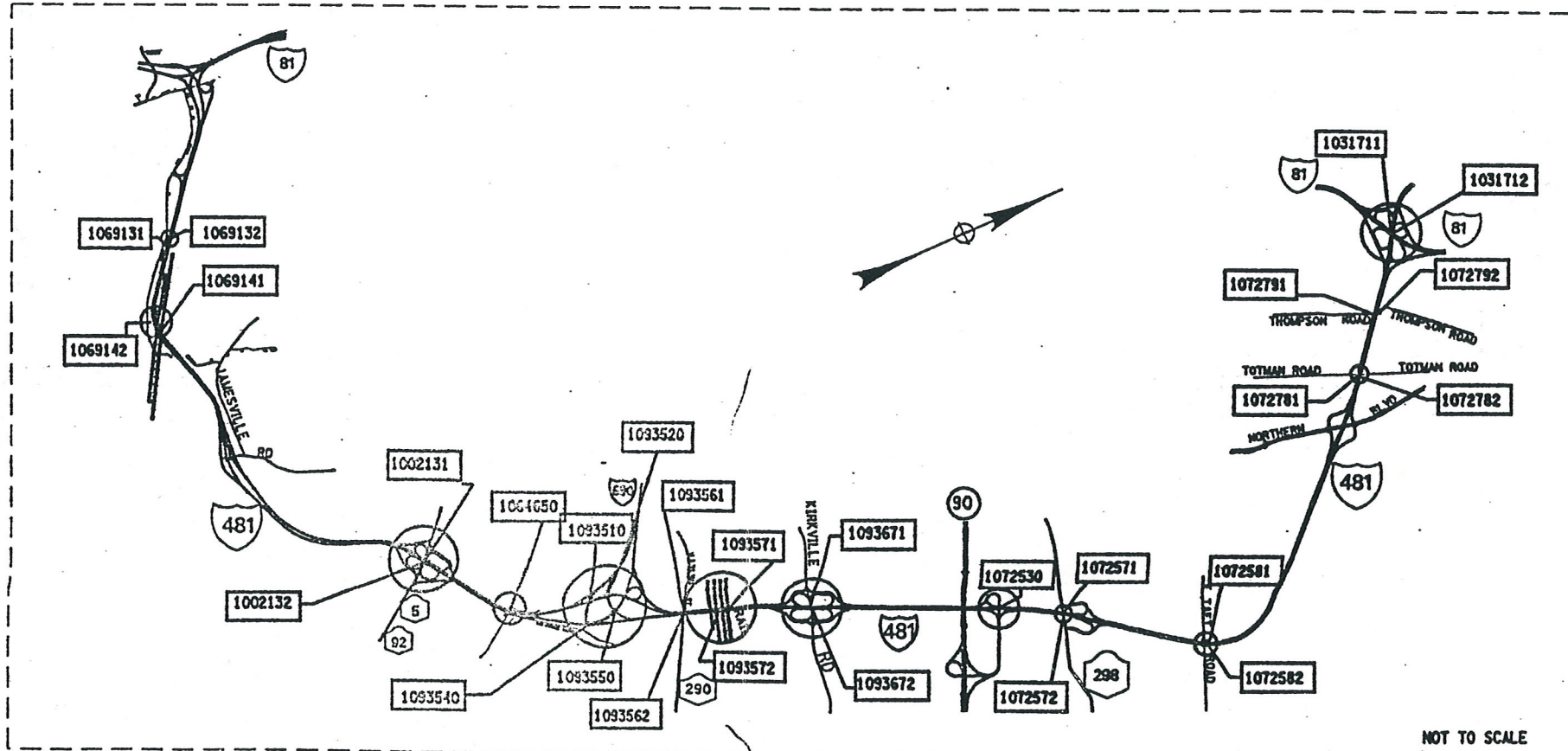
M203-4, M203-5, M203-6R1, M603-1  
M606-32, M606-33, M606-34,  
M619-3R1, M619-4, M619-5  
M685-1, M685-2R1, M685-3R1  
M685-4R1, M685-5R1, M403-1, M203-4,  
M203-5, M203-6R1, M603-1

*Brune Opalka 6/26/2009*  
*D.J. Hann 7/11*  
*J.W. Gonggub 7-9-13*

THIS IS A BRIDGE REHABILITATION PROJECT ON VARIOUS BRIDGES ON INTERSTATE 481, LOCATED IN THE TOWNS OF CICERO AND DEWITT IN ONONDAGA COUNTY. THIS WORK CONSISTS OF BRIDGE JOINTS, BEARINGS, BRIDGE RAIL AND CONCRETE REPAIR OF SUBSTRUCTURES. THERE ARE 28 BRIDGES IN THE PROJECT BEGINNING AT REFERENCE MARKER 4811-3301-1000 SOUTH OF THE CITY OF SYRACUSE AND ENDING AT REFERENCE MARKER 4811-3301-2143. 1481 INTERCHANGE NORTH OF THE CITY.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (METRIC UNITS) OF JANUARY 2, 2002, AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACTOR'S NAME \_\_\_\_\_  
AWARD DATE \_\_\_\_\_  
COMPLETION DATE \_\_\_\_\_  
FINAL ACCEPTANCE DATE \_\_\_\_\_  
REGIONAL DIRECTOR \_\_\_\_\_  
ENGINEER IN CHARGE \_\_\_\_\_  
FINAL COST TOTAL \_\_\_\_\_  
FISCAL SHARE \_\_\_\_\_ COST(S) \_\_\_\_\_



NOT TO SCALE

PROJECT LOCATION

RECOMMENDED BY: *John E. Fitch* 9/04/02 DATE: 9/04/02  
RECOMMENDED BY: *Murray A. Dineen* 9/14/02 DATE: 9/14/02  
RECOMMENDED BY: *Carl R. Rupp* 9/04/02 DATE: 9/04/02  
RECOMMENDED BY: *Brune Opalka* 9-4-02 DATE: 9-4-02  
APPROVED BY: *John E. Fitch* 090402 DATE: 090402

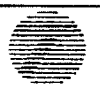
BRIDGE REHAB. PROJ.- ELEMENT SPECIFIC			
VARIOUS BRIDGES ON INTERSTATE 481			
TOWNS OF DEWITT AND CICERO			
ONONDAGA COUNTY			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	432
FEDERAL AID PROJECT NO.			
CAPITAL PROJECT IDENTIFICATION NO. 3056.13			
INDEX ON SHEET NO. 5 & 6			



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY

INDEX		
SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	COVER
2,3,4	ESTIMATE OF QUANTITIES	
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156	CROSSOVER TYPICAL SECTION	CTS-1
157-160	CROSSOVER SURVEY CONTROL DATA	HC-1 - HC-4
161-166	CROSSOVER PLANS	CPL-1 - CPL-6
167-174	CROSSOVER PROFILES	CPR-1 - CPR-8
175-177	CROSSOVER MISC. DETAILS	CMD-1 - CMD-3
178-179	CROSSOVER MISC. TABLES	CMT-1 - CMT-2
180-191	ESTIMATE OF QUANTITIES BY STRUCTURE	QE-1A - QE-4C
192	GENERAL NOTES	GN-1
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198-199	BIN 1002131, NORTH ABUTMENT (SB), SHEET PILING LAYOUT	AB1-4 - AB1-5
200-201	BIN 1002131 PIER 1 & PIER 2 SB REMOVAL DETAILS	PR1-1 & PR1-2
202	BIN 1002131, PEDESTAL REPLACEMENT	PR1-3
203	BIN 1002131, BOLSTER DETAILS	PR1-4
204	BIN 1002131, ANCHOR BOLT LAYOUT (SB)	PR1-5
205	BIN 1002132, I481NB/RT. 5, PLAN AND ELEVATION	GP2-1
206-207	BIN 1002132, TYPICAL BRIDGE SECTION AND PROFILE, APPROACH SECTION	TS2-1 & TS2-2
208-213	BIN 1002132, SOUTH ABUTMENT (NB)	AB2-1 - AB2-6
214-219	BIN 1002132, NORTH ABUTMENT (NB)	AB2-7 - AB2-12
220-221	BIN 1002132, PIERS (NB)	PR2-1 & PR2-2
222	BIN 1002132, PEDESTAL REPLACEMENT (NB)	PR2-3
223	BIN 1002132, BOLSTER DETAILS (NB)	PR2-4
224	BIN 1002132, ANCHOR BOLT LAYOUT (NB)	PR2-5
225	BIN 1031711 AND 1031712, I-481/I-81, PLAN AND ELEVATION	GP3-1
226	BIN 1031711 & 1031712, TYPICAL BRIDGE SECTION AND PROFILE	TS3-1
227	BIN 1031711, EAST ABUTMENT (SB) PLAN & ELEVATION	AB3-1
228	BIN 1031711, WEST ABUTMENT (SB) PLAN & ELEVATION	AB3-2
229	BIN 1031712, EAST ABUTMENT (NB) PLAN & ELEVATION	AB3-3
230	BIN 1031712, WEST ABUTMENT (NB) PLAN & ELEVATION	AB3-4
231	BIN 1031711 & 1031712, APPROACH SLABS	AS3-1
232	BIN 1064650, KINNE RD/1-481, PLAN, ELEVATION, AND BRIDGE SECTION	GP4-1
233	BIN 1069131 & 1069132, I-481/QUARRY DRIVEWAY, PLAN AND ELEVATION	GP5-1
234	BIN 1069131 & 1069132, TYPICAL BRIDGE SECTION AND PROFILE AND BRIDGE SECTION	TS5-1
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240-241	BIN 1069141 & 1069142, TYPICAL BRIDGE SECTION AND PROFILES	TS6-1 & TS6-2
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249	BIN 1072571 & BIN 1072572, I-481/ROUTE 298 PLAN AND ELEVATION AND BRIDGE SECTION	GP8-1
250	BIN 1072571 & BIN 1072572, TYPICAL BRIDGE SECTION AND PROFILE	TS8-1
251	BIN 1072571, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB8-1
252	BIN 1072571, NORTH ABUTMENT (SB) PLAN & ELEVATION	AB8-2
253	BIN 1072572, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB8-3
254	BIN 1072581 & BIN 1072582, I-481/TAFT ROAD, PLAN AND ELEVATION	GP9-1
255	BIN 1072581 & 1072582, TYPICAL BRIDGE SECTION AND PROFILE	TS9-1
256-257	BIN 1072581, SOUTH ABUTMENT AND NORTH ABUTMENT (SB)	AB9-1 & AB9-2
258-259	BIN 1072582, SOUTH ABUTMENT AND NORTH ABUTMENT (NB)	AB9-3 & AB9-4
260	BIN 1072781 & BIN 1072782, I-481/TOTMAN ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP10-1
261	BIN 1072781 & BIN 1072782 TYPICAL BRIDGE SECTION AND PROFILE	TS10-1
262-263	BIN 1072781, EAST ABUTMENT (SB) PLAN & ELEVATION	AB10-1 & AB10-2
264	BIN 1072782, WEST ABUTMENT (NB) PLAN & ELEVATION	AB10-3
265	BIN 1072781, APPROACH SLABS	AS10-1
266	BIN 1072791 & BIN 1072792, I-481/ THOMPSON ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP11-1
267	BIN 1072791 & BIN 1072792 TYPICAL BRIDGE SECTIONS AND PROFILE	TS11-1
268	BIN 1072791, EAST & WEST ABUTMENTS (SB)	AB11-1
269	BIN 1072791, APPROACH SLAB (SB)	AS11-1
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271	BIN 1093510, WEST ABUTMENT PLAN & ELEVATION	AB12-1
272	BIN 1093520, WN LINE OVER INTERSTATE 481 SB, PLAN, ELEVATION, AND BRIDGE SECTION	GP13-1
273	BIN 1093520, WEST ABUTMENT PLAN & ELEVATION	AB13-1
274	BIN 1093540, I-690 EB/ I-481 NB RAMP, PLAN, ELEVATION, AND BRIDGE SECTION	GP14-1
275	BIN 1093540 TYPICAL BRIDGE SECTION AND PROFILE	TS14-1
276	BIN 1093540, WEST ABUTMENT	AB14-1
277	BIN 1093550, I-481 NB/WB CONNECTOR, PLAN, ELEVATION, AND BRIDGE SECTION	GP15-1
278	BIN 1093550, SOUTH ABUTMENT, NB PLAN & ELEVATION	AB15-1
279	BIN 1093550, NORTH ABUTMENT, NB PLAN & ELEVATION	AB15-2
280	BIN 1093561 & 1093562, I-481/ROUTE 290, PLAN, ELEVATION AND BRIDGE SECTION	GP16-1
281	BIN 1093561 & 1093562 TYPICAL BRIDGE SECTION AND PROFILE	TS16-1
282	BIN 1093561, SOUTH ABUTMENT (SB) PLAN & ELEVATION	AB16-1
283	BIN 1093562, SOUTH ABUTMENT (NB) PLAN & ELEVATION	AB16-2
284-287	BIN 1093571 & BIN 1093572, I-481/CSX RAILROAD YARD, PLAN & ELEVATION	GP17-1 - GP17-4
288	BIN 1093571 AND BIN 1093572, TYPICAL BRIDGE SECTION AND PROFILES	TS17-1
289-293	BIN 1093571 AND BIN 1093672, DRAINAGE DETAILS	DD17-1 - DD17-5
294-296	BIN 1093571 AND BIN 1093672, SCUPPER EXTENSIONS	DD17-6 - DD17-8
297-314	BIN 1093571, PIERS 1-14, (SB)	PR17-1S - PR17-18S
315	BIN 1093572, SOUTH ABUTMENT (NB)	AB17-1
316-329	BIN 1093572, PIERS 1-14 (NB)	PR17-1N - PR17-14N
330-331	BIN 1093571 AND 1093572, PARAPET REPAIR DETAILS	PW17-1 & PW17-2
332	BIN 1093572, BRIDGE DECK REPAIRS	DR17-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	5	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. ALL BINS		
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED				
AS BUILT REVISIONS				
SIGNATURE		DATE		
INTERSTATE 481 REHABILITATION PROJECT				
INDEX				
				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
FILENAME	REGION	DATE	DRAWING NO.	
305613AAL2A	3	10/02	IDX-1	



CHECKED BY  
DRAWN BY  
ESTIMATED BY  
DATE

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
333	BIN 1093671 & 1093672, I-481/KIRKVILLE ROAD, PLAN, ELEVATION AND BRIDGE SECTION	GP18-1
334	BIN 1093671 & BIN 1093672 TYPICAL BRIDGE SECTION AND PROFILE	TS18-1
335-336	BIN 1093671, SOUTH ABUTMENT (SB) PLAN, ELEVATION AND SECTIONS	AB18-1 - AB18-2
337	BIN 1093671, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-3
338-339	BIN 1093672, SOUTH ABUTMENT (NB) PLAN, ELEVATION AND SECTIONS	AB18-4 - AB18-5
340	BIN 1093672, NORTH ABUTMENT (NB) PLAN & ELEVATION	AB18-6
341-342	BIN 1002131, BIN 1002132 & BIN 1093571, MULTIROTATIONAL BEARINGS	BR-1 & BR-2
343	BIN 1002131, BEARING RESTORATION DETAILS	BR-3
344	BINS 1069131 & 1069132, BEARING RESTORATION DETAILS	BR-4
345-346	BIN 1069141 & BIN 1069142, BEARING RESTORATION DETAIL	BR-5 & BR-6
347	BIN 1072530, BEARING RESTORATION DETAILS	BR-7
348	BIN 1072791 AND BIN 1072792 BEARING RESTORATION DETAILS	BR-8
349	BIN 1093550, BEARING RESTORATION DETAILS	BR-9
350-351	BINS 1093751 & 1093572, BEARING RESTORATION DETAILS	BR-10 & BR-11
352	BIN 1072781 BEARING RESTORATION DETAILS	BR-12
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353-355	BIN 1002131 & BIN 1002132, RAILING DETAILS	RD-1 - RD-3
356-358	BIN 1069141 & BIN 1069142, RAILING DETAILS	RD-4 - RD-6
359-360	RAILING DETAILS	RD-7 - RD-8
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361-364	BRIDGE JOINT TABLE	JT-1 - JT-4
365	COMPRESSION SEAL JOINT DETAIL (ALL BRIDGES)	JD-1
366-370	BIN 1002131, JOINT DETAILS	JD-2 - JD-6
371-375	BIN 1002132, JOINT DETAILS	JD-7 - JD-11
376-377	BIN 1031711 & BIN 1031712, JOINT DETAILS	JD-12 - JD-13
378-383	BIN 1064650, JOINT DETAILS	JD-14 - JD-19
384-385	BIN 1069131, JOINT DETAILS	JD-20 + JD-21
386-387	BIN 1069132, JOINT DETAILS	JD-22 + JD-23
388-392	BIN 1069141 & BIN 1069142	JD-24 - JD-28
393-394	BIN 1072530, JOINT DETAILS	JD-29 + JD-30
395-396	BIN 1072571, JOINT DETAILS	JD-31 + JD-32
397-398	BIN 1072572, JOINT DETAILS	JD-33 + JD-34
399-400	BIN 1072581, JOINT DETAILS	JD-35 + JD-36
401-402	BIN 1072582, JOINT DETAILS	JD-37 + JD-38
403-404	BIN 1072781, JOINT DETAILS	JD-39 + JD-40
405-406	BIN 1072782, JOINT DETAILS	JD-41 + JD-42
407-408	BIN 1072792, JOINT DETAILS	JD-43 + JD-44
409-410	BIN 1093510, JOINT DETAILS	JD-45 + JD-46
411	BIN 1072791, BIN 1093520 & BIN 1093540, JOINT DETAILS	JD-47
412-413	BIN 1093550, JOINT DETAILS	JD-48 + JD-49
414-416	BIN 1093561 & BIN 1093562, JOINT DETAILS	JD-50 - JD-52
417-420	BIN 1093571 & BIN 1093572, JOINT DETAILS	JD-53 - JD-56
421-423	BIN 1093671 & BIN 1093672, JOINT DETAILS	JF-57 - JD-59

INDEX (CONTINUED)		
SHEET NO.	DESCRIPTION	DRAWING NO.
424	VARIOUS BRIDGES - ROAD PLATE DETAIL	AA - RP1
	BAR LIST	
425-428	ALL BINS (BRIDGE JOINT SYSTEMS)	BL-1 - BL-4
429	BIN 1002131 & 1002132	BL-5
430	BIN 1093571	BL-6
431	STRUCTURAL SLAB OVERLAY & ASPHALT PAVEMENT REPAIR DETAILS	MS-1
432	MISC. TABLE	MT-1

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	6	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGE ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 REHABILITATION PROJECT			
INDEX			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AAL2A	REGION 3	DATE 10/02	DRAWING NO. IDX-2







FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	190	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

ITEM #	DESCRIPTION	UNIT	1093550		1093561		1093562		1093571		1093572		1093671		1093672	
			EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
570.090004 M	ENVIRONMENTAL GROUND PROTECTION	LS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
570.100001 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---	---	---	---	---	---	NEC	---	---	---	---	---	---	---
570.100002 M	ENVIRONMENTAL WATERWAY PROTECTION	LS	---	---	---	---	---	---	---	NEC	---	---	---	---	---	---
16570.32 M	LOCALIZED PAINTING OF BARE STRUCTURAL STEEL	SM	---	---	---	---	---	---	18	---	21	---	---	---	---	---
16570.72 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL PLANAR SURFACES	SM	---	---	---	---	---	---	18	---	21	---	---	---	---	---
16570.76 M	LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL - IRREGULAR	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571.010001 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	1	---	---	---	---	---	---	---
571.010002 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	1	---	---	---	---	---	---
571.010003 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571.010004 M	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
572.010001 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---	---	---	---	---	---	1	---	---	---	---	---	---	---
572.010002 M	STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED	SM	---	---	---	---	---	---	---	1	---	---	---	---	---	---
576.2001M	DOWNSPOUT SYSTEM, DUCTILE IRON	M	---	---	---	---	---	---	3	---	4	---	---	---	---	---
578.020001 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020002 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020003 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.020004 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	---	---	---	77	---	---	---	---	---	---
578.020005 M	OVERLAY CONCRETE - CLASS E	SM	---	---	---	---	12	---	---	---	---	---	---	---	---	---
578.030001 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030002 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030003 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030004 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	77	---	---	---	---	---	---
578.030005 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	12	---	---	---	---	---	---	---	---	---
578.030006 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
578.030007 M	SLAB RECONSTRUCTION CONCRETE - CLASS D OR E	SM	---	---	---	---	---	---	---	---	---	---	---	---	---	---
579.02 M	REINFORCING BAR EXPOSURE	SM	---	---	---	---	12	---	---	77	---	---	---	---	---	---
580.01 M	REMOVAL OF STRUCTURAL CONCRETE	CM	2	---	2	---	2	---	62	---	15	---	2	---	2	---
582.05 M	REMOVE STRUCTURAL CONCRETE WITH CLASS A CONCRETE	CM	16	---	1	---	1	---	43	---	46	---	2	---	5	---
582.07 M	REMOVE STRUCTURAL CONCRETE AND REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL	SM	---	---	---	---	---	---	151	---	221	---	---	---	---	---
16584.13 M	RAPID SETTING CONCRETE FOR BRIDGE AND APPROACH SLAB REPAIRS	KG	---	---	---	---	---	---	---	---	---	---	---	---	---	---
585.01 M	STRUCTURAL LIFTING OPERATIONS - TYPE A	EA	12	---	---	---	---	---	---	---	---	---	---	---	---	---
585.02 M	STRUCTURAL LIFTING OPERATIONS - TYPE B	EA	---	---	---	---	---	---	21	---	25	---	---	---	---	---
585.03 M	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	---	---	---	---	---	---	35	---	35	---	---	---	---	---
586.01 M	DRILL AND GROUT BOLTS, OR REINFORCING BARS	mm	19200	---	13050	---	16650	---	53700	---	59100	---	15600	---	15600	---
17586.18M	DRILLING HOLES IN EXISTING SUBSTRUCTURE	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16586.200125 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16586.200216 M	DRILL AND GROUT ANCHOR BOLTS AND REBAR IN CONCRETE	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
587.01 M	BRIDGE RAILING REMOVAL AND DISPOSAL	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520001 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	4	---	---	---	---	---	---	---
589.520002 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	6	---	---	---	---	---	---
589.520003 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520004 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589.520005 M	REMOVAL OF EXISTING STEEL	EA	---	---	---	---	---	---	8	---	---	---	---	---	---	---
590.01M	VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES	EA	---	---	---	---	---	---	7	---	9	---	---	---	---	---
603.6001 M	REINFORCED CONCRETE PIPE CLASS III, 300 mm	M	---	---	---	---	---	---	---	---	4	---	---	---	---	---
603.7301M	REINFORCED CONCRETE PIPE END SECTION 300 mm DIAMETER	EA	---	---	---	---	---	---	---	---	3	---	---	---	---	---

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

SHEET 11 OF 12

ESTIMATE OF QUANTITIES

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613.1A	3	10/02	QE-4B

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ESTIMATED BY

1. CHECKED BY

**Abstract**

100

## ESTIMATE OF QUANTITIES BY STRUCTURE

[illegible]

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	191	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. VARIOUS	

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: SPEC BOOK/PROPOSAL
m	M	METER
m <sup>2</sup>	SQM	SQUARE METER
m <sup>3</sup>	CM	CUBIC METER
km	KM	KILOMETER
ha	HA	HECTARE
kg	KG	KILOGRAM
t OR <i>1000 kg</i>	MT	METRIC TON
L	L	LITER

- THE METRIC TON IS EQUIVALENT TO ONE MEGAGRAM (Mg)

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

**SHEET 12 OF 12**


### ESTIMATE OF QUANTITIES

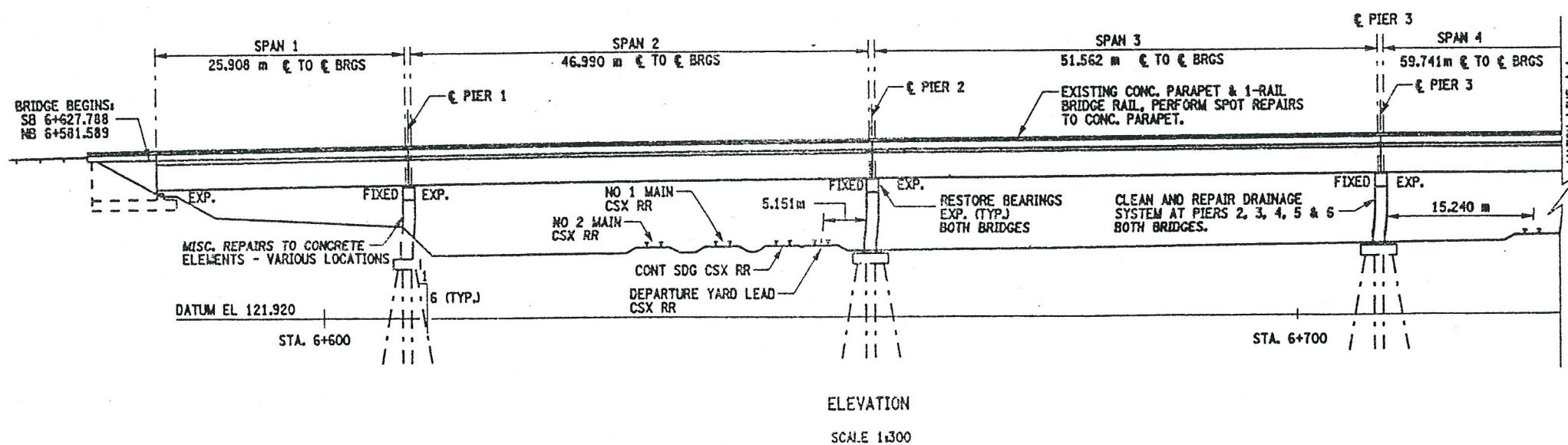


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613.1A	3	10/02	QE-4C



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AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 OVER CSX RAILROAD YARD PLAN AND ELEVATION 1 OF 4			
 STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-1





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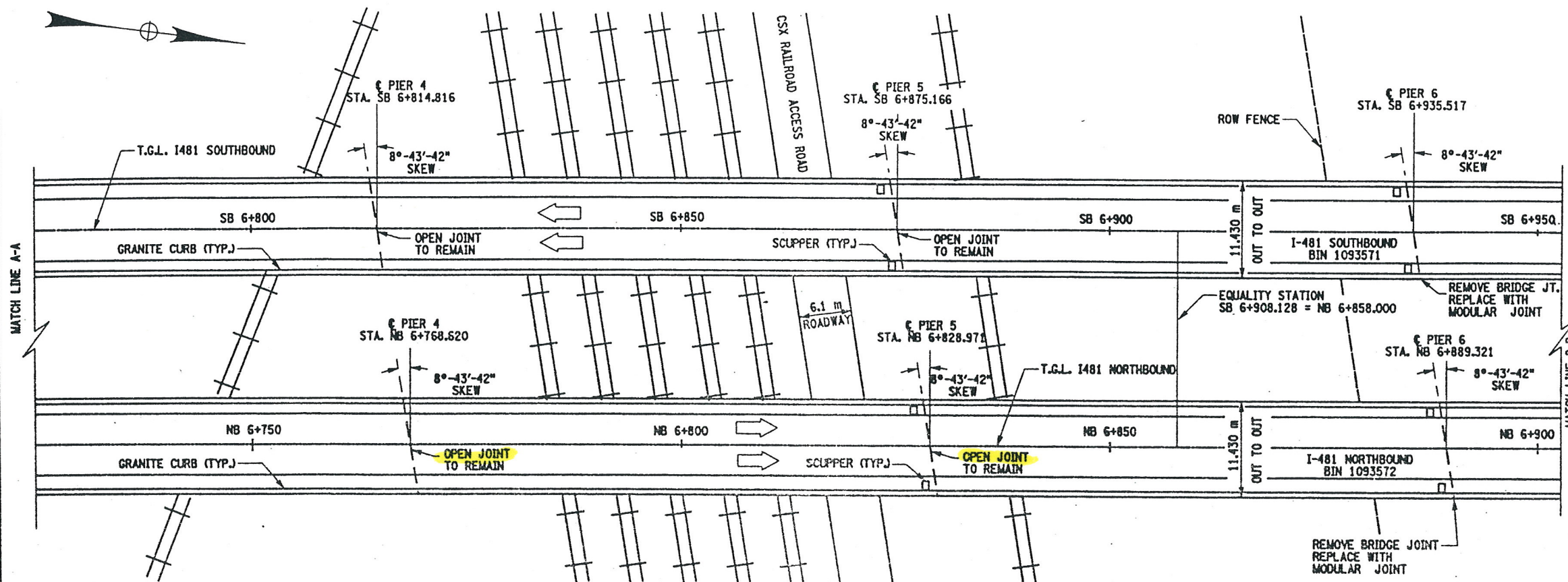
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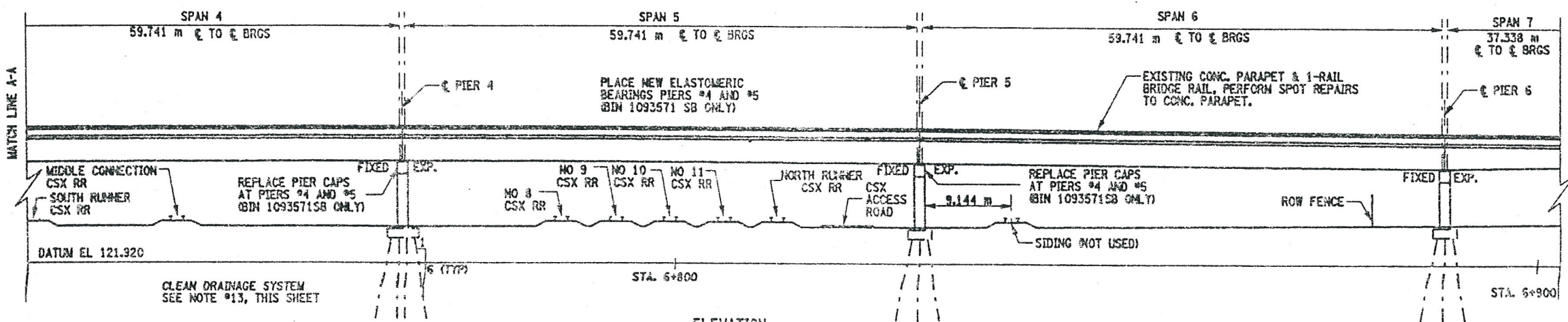
JOB MANAGER

DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	285	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571 & 1093572	



PLAN  
SCALE 1:300



ELEVATION  
SCALE 1:300

TRACK	VERTICAL CLEARANCE	HORIZONTAL CLEARANCE
	METERS	METERS
NO 2 MAIN	7.468	16.000
NO 1 MAIN	7.285	NA
CONT SDG	7.498	NA
DEPARTURE YARD LEAD	7.559	5.151
SOUTH RUNNER	8.169	15.240
MIDDLE CONNECTION	8.077	NA
NO 8	8.077	17.891
NO 9	8.077	NA
NO 10	8.077	NA
NO 11	8.159	NA
NORTH RUNNER	8.169	NA
SIDING	NA	9.144

NOTE: ALL DIMENSIONS SHOWN IN THIS TABLE ARE FIELD MEASUREMENTS.

WORK TO BE DONE ON BIN 1093571 SB; (NOT NECESSARILY IN THIS ORDER)

1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION, (RR TRAFFIC CONTROL REQUIRED).
2. REMOVE EXISTING BRIDGE JOINTS AT THE BEGINNING ABUTMENT (TO INCLUDE ARMORING DECK ANGLE) AND PIERS #6, #7, #8, #10, #11, #12, #13 AND #14.
3. INSTALL NEW BRIDGE JOINTS, MODULAR ONE-CELL JOINT SYSTEM.
4. INSTALL NEW COMPRESSION SEALS AT THE PARAPET SECTIONS OF THE EXISTING OPEN JOINTS, PIERS #1, #2, #3, #4, #5 & #9. REPAIR EXISTING CONCRETE PARAPETS, OPEN JOINTS TO REMAIN.
5. REMOVE EXISTING ARMORING DECK ANGLE, AT END ABUTMENT.
6. REPAIR THE DECK AREA, WHERE ARMORING ANGLE WAS REMOVED.
7. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES.
8. REPAIR THE CONCRETE ELEMENTS (I.E. PIER CAPS, PIER COLUMNS AND PIER PEDESTALS).
9. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDER EXTENDED BEARINGS).
10. REMOVE PIER CAP #4 AND #5, TO INCLUDE PEDESTALS AND BEARINGS.
11. CONSTRUCT NEW PIER CAPS AND PEDESTALS AT PIERS #4 AND #5.
12. PLACE NEW BEARINGS AT PIERS #4 & #5, (ELASTOMERIC BEARINGS).
13. CLEAN AND MODIFY EXISTING CLOSED DRAINAGE SYSTEM AT PIERS #1, #2, #3, #4, #5 AND #9.
14. INSTALL SCUPPER DOWNSPOUT EXTENSIONS AT EXISTING SCUPPERS, SPANS #7 THRU #14.
15. PERFORM DRAINAGE IMPROVEMENTS AT RR YARD.
16. REPAIR EXISTING CONCRETE PARAPETS.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
2 OF 4



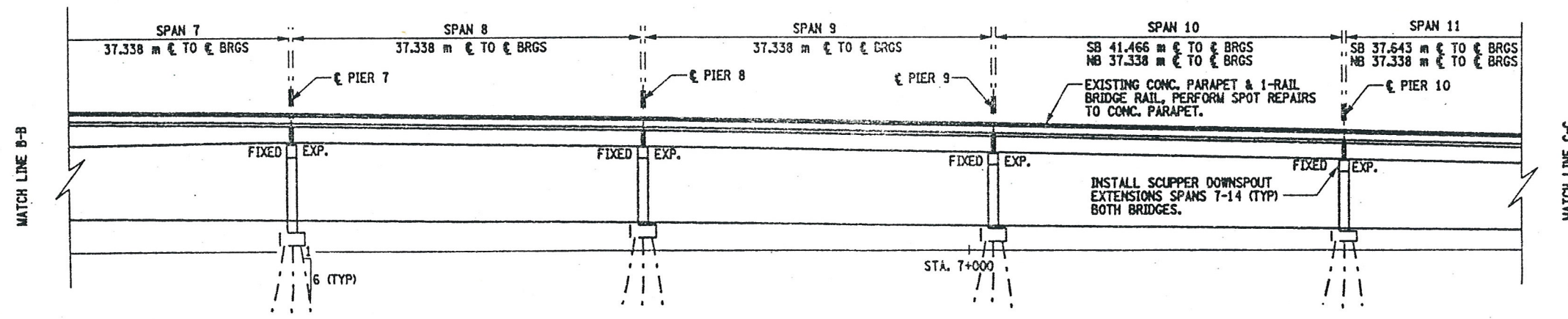
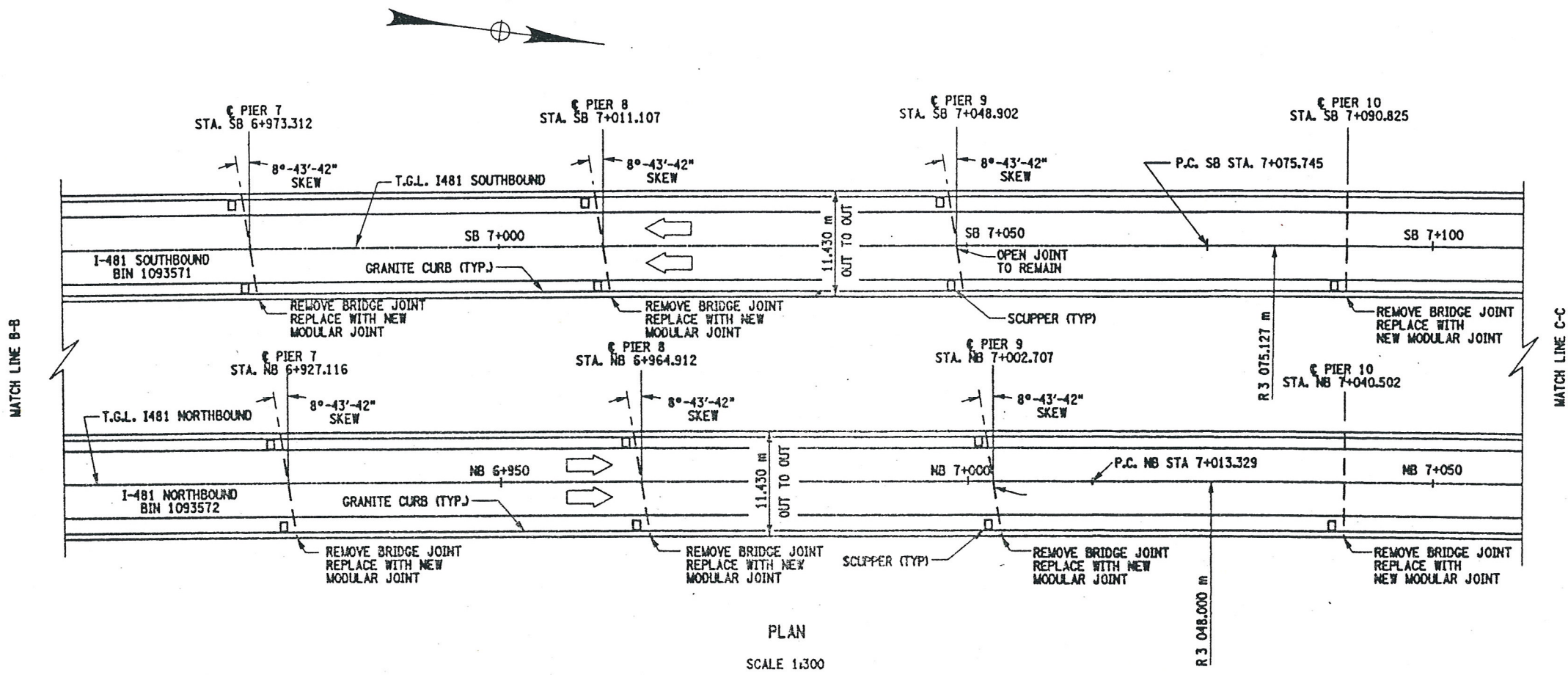
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-2
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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	286	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



CURVE DATA	
SOUTHBOUND	NORTHBOUND
P.C.=7+075.745	P.C.=7+013.329
Δ=7°-04'-13"	Δ=7°-04'-13"
R=3075.127	R=3048.000
L=379.470	L=376.122
T=189.976	T=188.300

- WORK TO BE DONE ON BIN 1093572, NB (NOT NECESSARILY IN THIS ORDER)
1. ESTABLISH MP&T SCHEME FOR STAGE CONSTRUCTION, (RR TRAFFIC CONTROL REQUIRED).
  2. REMOVE EXISTING BRIDGE JOINT AT BEGINNING ABUTMENT AND PIERS #6, #7, #8, #9, #10, #11, #12, #13 AND #14.
  3. INSTALL NEW BRIDGE JOINTS, (MODULAR ONE-CELL JOINTS).
  4. INSTALL NEW COMPRESSION SEALS AT THE PARAPET SECTIONS OF THE EXISTING OPEN JOINTS AT PIERS #1, #2, #3, #4 AND #5.
  5. REPAIR EXISTING CONCRETE PARAPETS.
  6. PERFORM REBAR EXPOSURE IN AREAS SHOWN ON PLANS, OR A.O.B.E. TO REPLACE ASPHALT PATCHES, (SPOT REPAIRS TO BRIDGE DECK).
  7. PLACE SLAB RECONSTRUCTION CONCRETE.
  8. REMOVE EXISTING ARMORING DECK ANGLE, AT END ABUTMENT.
  9. REPAIR THE BRIDGE DECK AREA AT THE END ABUTMENT, WHERE THE ARMORING DECK ANGLE WAS REMOVED.
  10. PERFORM MINOR REPAIRS TO ASPHALT APPROACHES.
  11. REPAIR CONCRETE ELEMENTS, (PIER CAPS, COLUMNS AND PEDESTALS).
  12. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDER EXTENDED BEARINGS).
  13. CLEAN AND MODIFY EXISTING CLOSED DRAINAGE SYSTEMS AT PIERS #1, #2, #3, #4, #5 AND #6.
  14. INSTALL SCUPPER DOWNSPOUT EXTENSIONS AT EXISTING SCUPPERS, SPANS #7 THRU #14.
  15. PERFORM DRAINAGE IMPROVEMENTS AT RR YARD.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND  
ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
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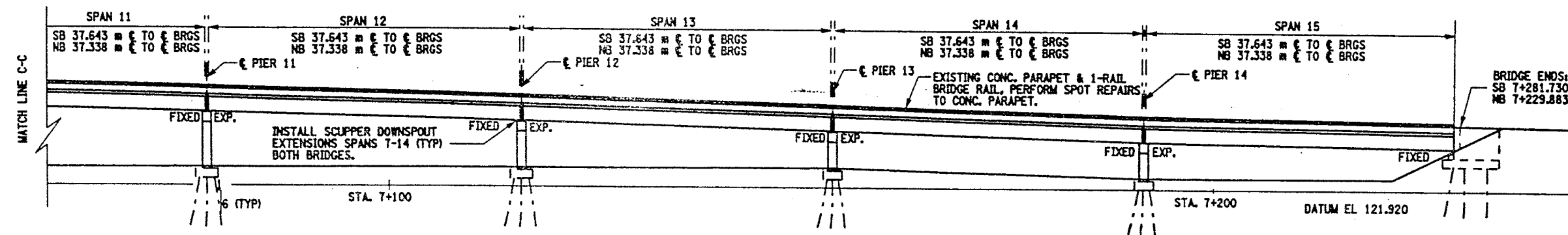
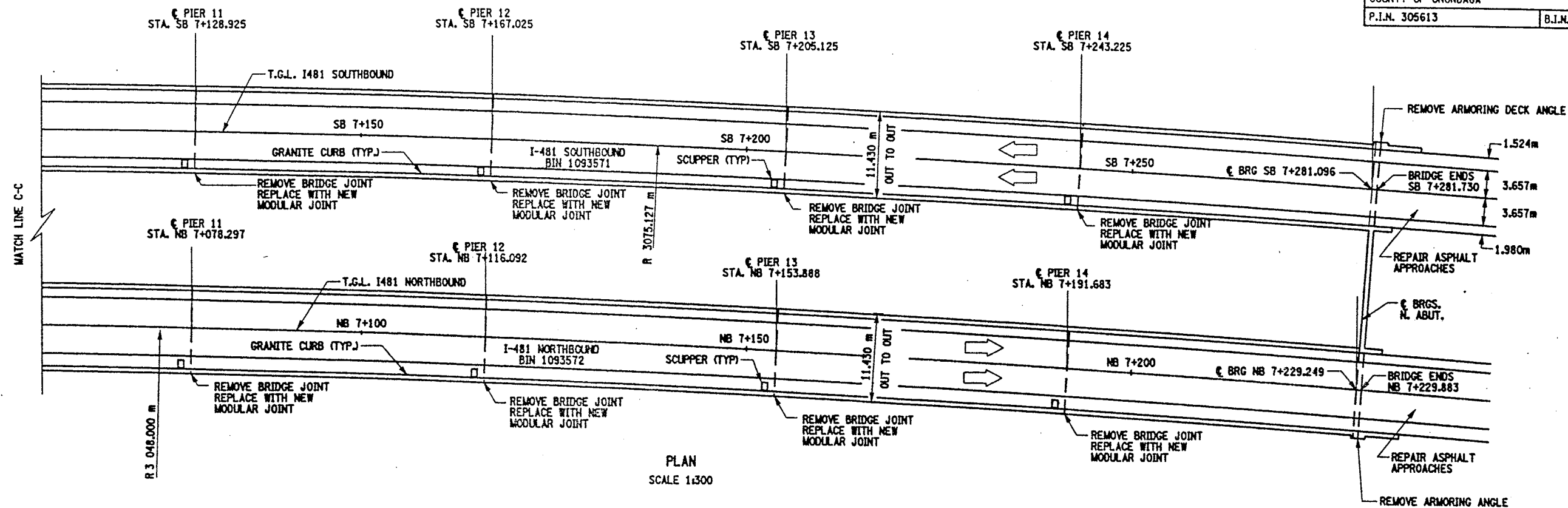
INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
3 OF 4

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-3
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JOB MANAGER  
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FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	287	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND

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SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
PLAN AND ELEVATION  
4 OF 4

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

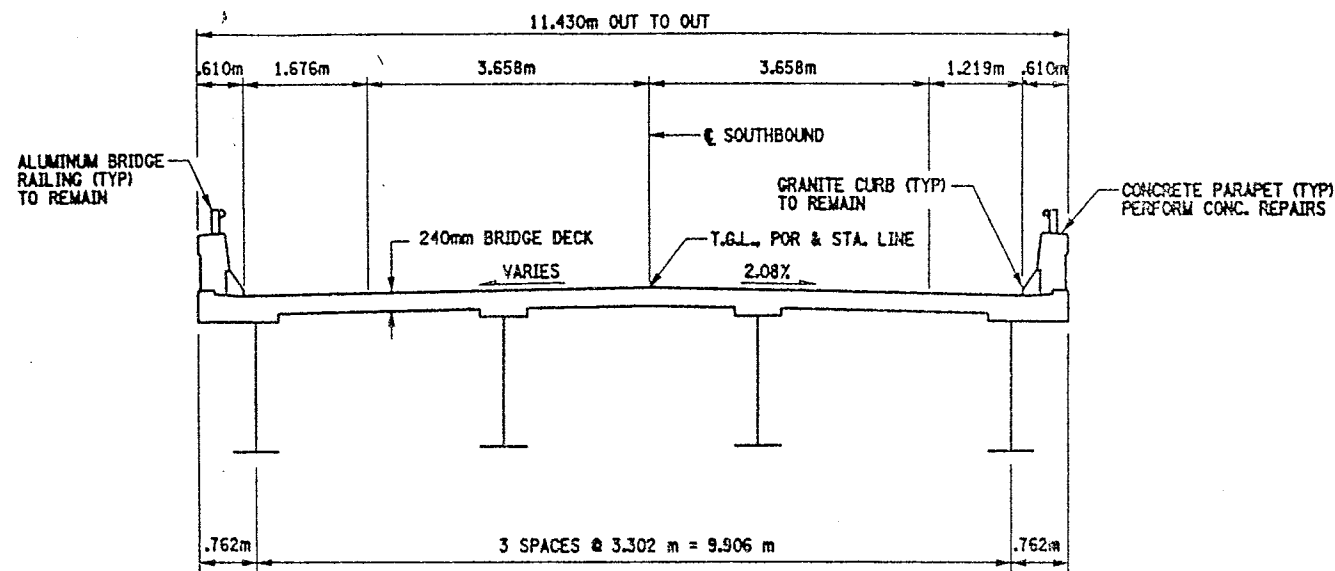


FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. GP17-4
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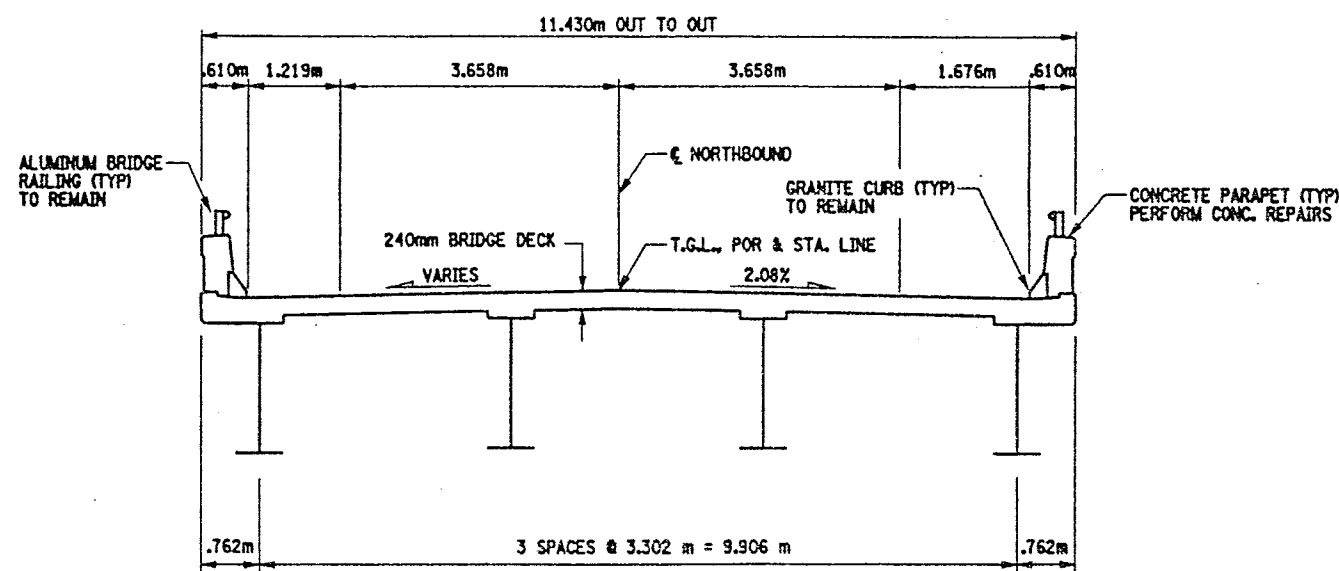


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JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	288	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		



SOUTHBOUND  
BIN 1093571



NORTHBOUND  
BIN 1093572

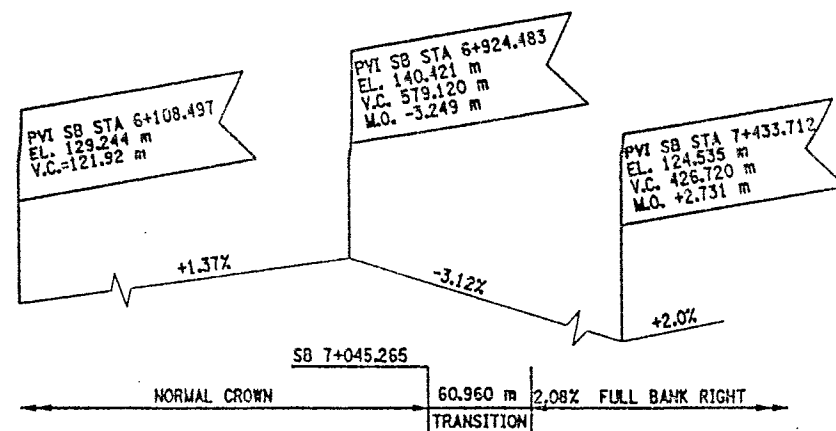
TYPICAL BRIDGE SECTIONS

NOTES:

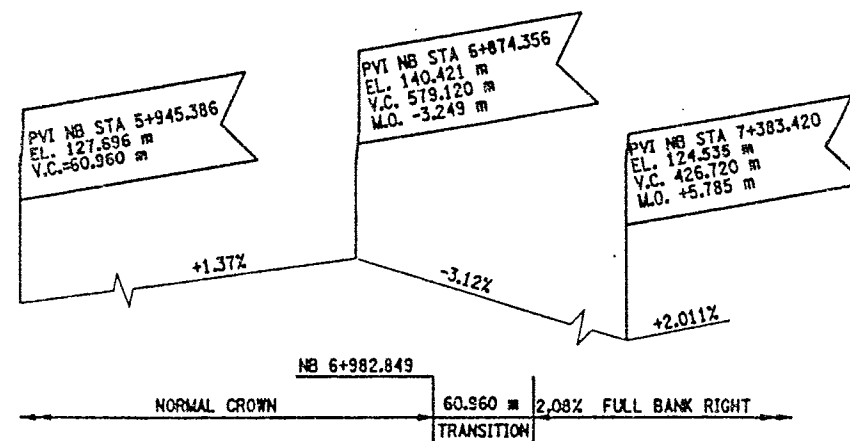
ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
38mm CONCRETE OVERLAY ADDED LATER.

SEE ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND  
CONTRACT PLANS D251436.

BIN 1093571 SOUTHBOUND  
BIN 1093572 NORTHBOUND



PROFILE SOUTHBOUND  
NOT TO SCALE

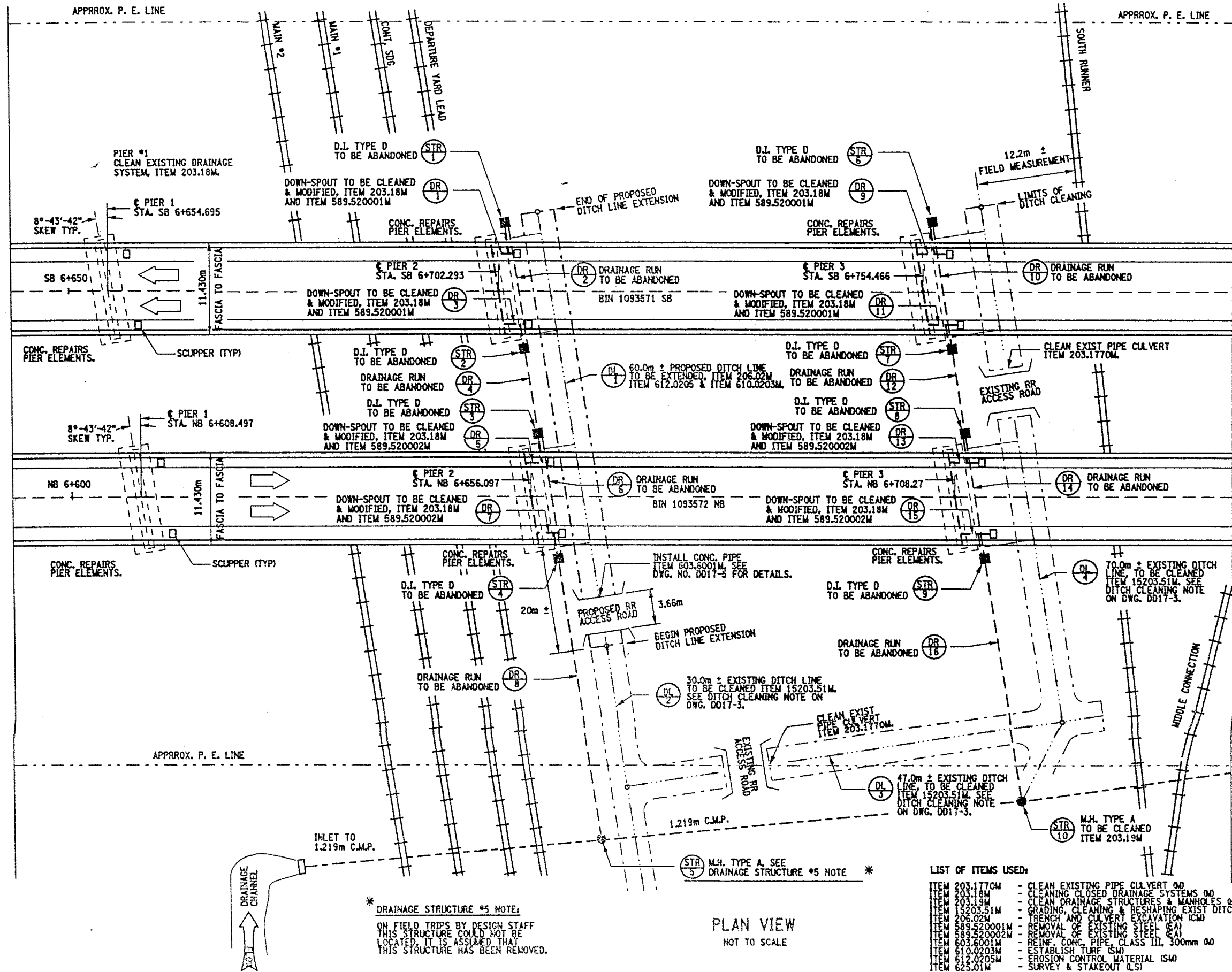
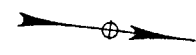


PROFILE NORTHBOUND  
NOT TO SCALE

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<u>AS BUILT REVISIONS</u>			
SIGNATURE		DATE	
INTERSTATE 481 OVER CSX RAILROAD YARD TYPICAL BRIDGE SECTION AND PROFILES			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. TS17-1

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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



\* DRAINAGE STRUCTURE #5 NOTE:  
ON FIELD TRIPS BY DESIGN STAFF  
THIS STRUCTURE COULD NOT BE  
LOCATED. IT IS ASSURED THAT  
THIS STRUCTURE HAS BEEN REMOVED.

PLAN VIEW  
NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 203.1770M - CLEAN EXISTING PIPE CULVERT (M)
  - ITEM 203.18M - CLEANING CLOSED DRAINAGE SYSTEMS (M)
  - ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (M)
  - ITEM 15203.51M - GRADING, CLEANING & RESHAPING EXIST DITCHES (M)
  - ITEM 206.02M - TRENCH AND CULVERT EXCAVATION (CM)
  - ITEM 589.520001M - REMOVAL OF EXISTING STEEL (SA)
  - ITEM 589.520002M - REMOVAL OF EXISTING STEEL (SA)
  - ITEM 603.8001M - REINFORCED CONCRETE PIPE, CLASS III, 300mm (M)
  - ITEM 610.0203M - ESTABLISH TURF (SM)
  - ITEM 625.01M - EROSION CONTROL MATERIAL (SM)
  - ITEM 625.01M - SURVEY & STAKEOUT (LS)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	289	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

**GENERAL NOTES:**  
THE PROPOSED DRAINAGE WORK IS BASED ON DRAINAGE INFORMATION FROM ORIGINAL CONTRACT F.I.S.H. 70-7. REFER TO ORIGINAL CONTRACT PLANS FOR DETAILS OF EXISTING DRAINAGE STRUCTURES.  
THE CONTRACTOR SHALL VERIFY THIS INFORMATION WITH FIELD SITE INSPECTIONS.  
CONTRACTOR SHALL NOTE THAT ALL DRAINAGE SYSTEMS AND STRUCTURES SHALL BE CLEANED UNDER ITEMS 203.18M OR 203.19M.  
THE EXACT PLACEMENT OF THE PROPOSED RR ACCESS ROAD (CONC. PIPE CULVERT) SHALL BE AT THE DISCRETION OF THE ENGINEER.  
NO EXISTING SURVEY IS AVAILABLE, ITEM 625.01M "SURVEY & STAKEOUT" IS INCLUDED IN CONTRACT FOR ALL NECESSARY WORK, AS DIRECTED BY ENGINEER.  
SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE WORK AND DITCH LINE WORK, TO BE DONE.  
SEE DWG. NO. DD17-4 FOR DOWN-SPOUT MODIFICATION DETAILS.  
SEE DWG. NO. GN-1 FOR SERIALIZED ITEM NOTES.  
SEE DWG. NO. DD17-5 FOR PROPOSED CONC. PIPE AND MISCEL. DETAILS.

**WORK TO BE DONE:**  
PIER #1 - CLEAN EXISTING DRAINAGE SYSTEM. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #2 - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN THE REMAINING DRAINAGE SYSTEM. THIS WORK SHALL INCLUDE EXTENSION OF THE EXISTING DITCH LINE AND INSTALLATION OF A CULVERT PIPE. ALSO CLEANING AND RESHAPING THE EXISTING DITCH LINE. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #3 - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN THE REMAINING DRAINAGE SYSTEM. THIS WORK SHALL ALSO INCLUDE CLEANING THE EXISTING DITCH LINE AND CLEANING EXISTING CULVERT PIPE. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION.  
PIER #4 - CLEAN EXISTING DRAINAGE SYSTEM TO INCLUDE ANY REPAIRS TO DRAINAGE STRUCTURES. NORTH BOUND, PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. SOUTH BOUND, REPLACE PIER CAP.  
PIER #5 - CLEAN EXISTING DRAINAGE SYSTEM TO INCLUDE ANY REPAIRS TO DRAINAGE STRUCTURES AND INSTALLATION OF A NEW OUTLET SECTION (305mm RCCP). NORTH BOUND, PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. SOUTH BOUND, REPLACE PIER CAP.  
PIER #6 (NB ONLY) - DRAINAGE STRUCTURES AND DRAINAGE RUNS TO BE ABANDONED. MODIFY EXISTING DOWN-SPOUTS (REFER TO DRAWING NO. DD17-4 FOR DETAILS). CLEAN REMAINING DRAINAGE SYSTEM. PERFORM REPAIRS TO CONCRETE PIER ELEMENTS AND BEARING RESTORATION. CONSTRUCT A SWALE TO DIRECT RUNOFF AWAY FROM PIER AND RR PROPERTY.  
PIER #9 (SB ONLY) - CLEAN EXISTING DRAINAGE SYSTEM.  
SEE DRAWING NO. GP17-2 AND GP17-3 FOR COMPLETE LISTING OF WORK TO BE DONE.

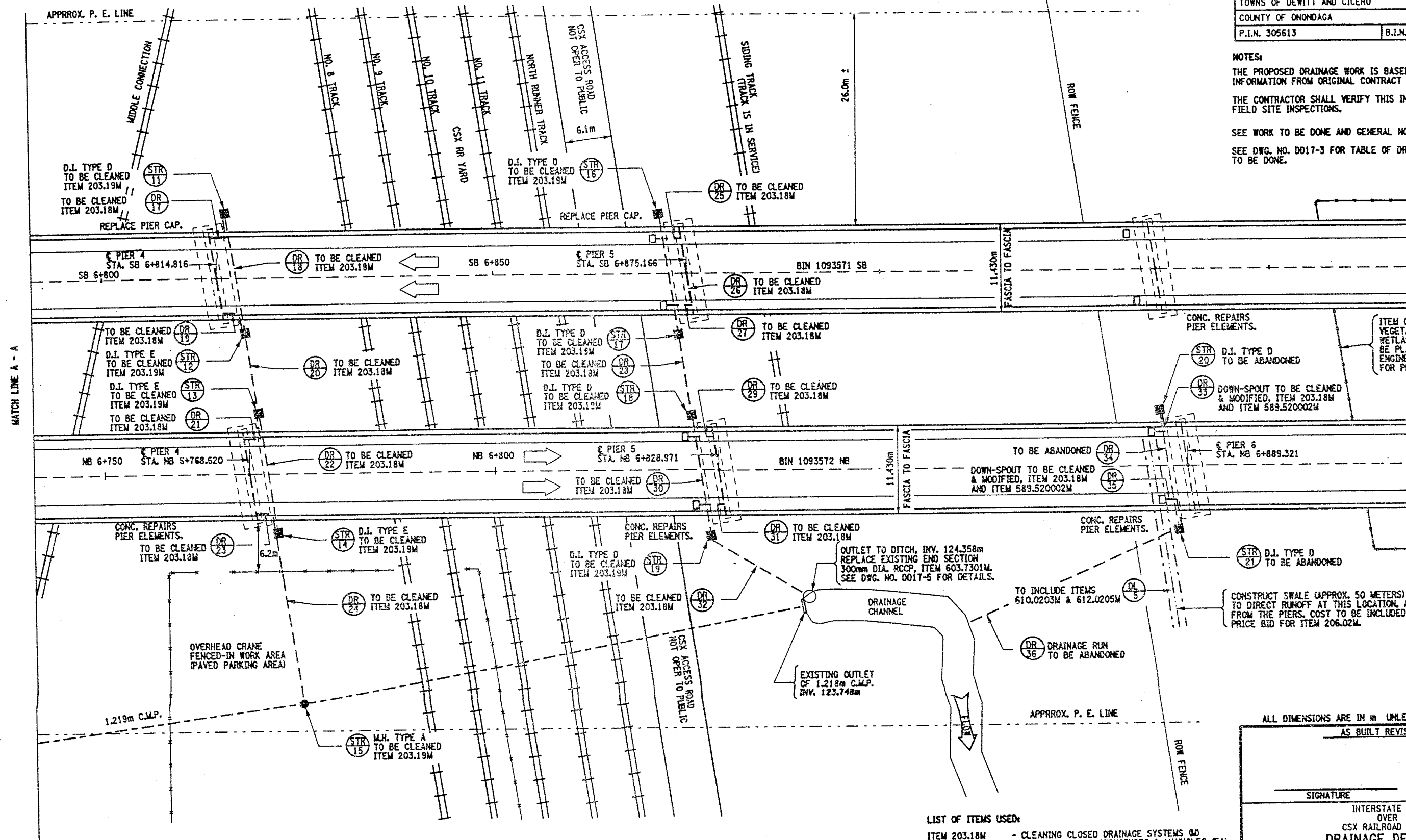
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SIGNATURE	DATE
INTERSTATE 481 OVER CSX RAILROAD YARD DRAINAGE DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.G1A	REGION 3
DATE 10/02	DRAWING NO. DD17-1

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	290	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

NOTES:  
 THE PROPOSED DRAINAGE WORK IS BASED ON DRAINAGE INFORMATION FROM ORIGINAL CONTRACT F.I.S.H. TO-7.  
 THE CONTRACTOR SHALL VERIFY THIS INFORMATION WITH FIELD SITE INSPECTIONS.  
 SEE WORK TO BE DONE AND GENERAL NOTES ON DWG. NO. D017-1.  
 SEE DWG. NO. D017-3 FOR TABLE OF DRAINAGE WORK TO BE DONE.



PLAN VIEW  
NOT TO SCALE

LIST OF ITEMS USED:

- ITEM 203.18M - CLEANING CLOSED DRAINAGE SYSTEMS (Q)
- ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (EA)
- ITEM 206.02M - TRENCH AND CULVERT EXCAVATION (CM)
- ITEM 589.520002M - REMOVAL OF EXISTING STEEL (EA)
- ITEM 603.7301M - REINF. CONC. PIPE END SECTION, 300mm (EA)
- ITEM 610.0203M - ESTABLISH TURF (SM)
- ITEM 612.0205M - EROSION CONTROL MATERIAL (SM)
- ITEM 08615.0402M - TREE AND VEGETATION BARRIER (Q)

ALL DIMENSIONS ARE IN M UNLESS OTHERWISE NOTED  
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SIGNATURE		DATE	
INTERSTATE 481 OVER CSX RAILROAD YARD DRAINAGE DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.G1A	REGION 3	DATE 10/02	DRAWING NO. D017-2

DESIGN SUPERVISOR  
JOB MANAGER  
DESIGNED BY  
CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY

DRAINAGE RUN TABLE						
DR NO	FROM STRUCTURE	203mm C.I.P.	305mm R.C.C.P.	TO STRUCTURE	WORK TO BE DONE	REMARKS
1	B.I.N. 1093571 SB, PIER 2, WEST COLUMN	18.0m		STR. #1	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
2	STR. #1			STR. #2		TO BE ABANDONED
3	B.I.N. 1093571 SB, PIER 2, EAST COLUMN	18.0m		STR. #2	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
4	STR. #2			STR. #3		TO BE ABANDONED
5	B.I.N. 1093572 NB, PIER 2, WEST COLUMN	18.0m		STR. #3	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
6	STR. #3			STR. #4		TO BE ABANDONED
7	B.I.N. 1093572 NB, PIER 2, EAST COLUMN	18.0m		STR. #4	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
8	STR. #4			STR. #5		TO BE ABANDONED
9	B.I.N. 1093571 SB, PIER 3, WEST COLUMN	18.0m		STR. #6	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
10	STR. #6			STR. #7		TO BE ABANDONED
11	B.I.N. 1093571 SB, PIER 3, EAST COLUMN	18.0m		STR. #7	ITEM 203.18W/589.520001W	CLEAN & OUTLET TO GROUND
12	STR. #7			STR. #8		TO BE ABANDONED
13	B.I.N. 1093572 NB, PIER 3, WEST COLUMN	18.0m		STR. #8	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
14	STR. #8			STR. #9		TO BE ABANDONED
15	B.I.N. 1093572 NB, PIER 3, EAST COLUMN	18.0m		STR. #9	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
16	STR. #9			STR. #10		TO BE ABANDONED
17	B.I.N. 1093571 SB, PIER 4, WEST COLUMN	18.0m		STR. #11	ITEM 203.18W	CLEAN
18	STR. #11		14.6m	STR. #12	ITEM 203.18W	CLEAN
19	B.I.N. 1093571 SB, PIER 4, EAST COLUMN	18.0m		STR. #12	ITEM 203.18W	CLEAN
20	STR. #12		9.8m	STR. #13	ITEM 203.18W	CLEAN
21	B.I.N. 1093572 NB, PIER 4, WEST COLUMN	18.0m		STR. #13	ITEM 203.18W	CLEAN
22	STR. #13		14.6m	STR. #14	ITEM 203.18W	CLEAN
23	B.I.N. 1093572 NB, PIER 4, EAST COLUMN	18.0m		STR. #14	ITEM 203.18W	CLEAN
24	STR. #14		22.8m	STR. #15	ITEM 203.18W	CLEAN
25	B.I.N. 1093571 SB, PIER 5, WEST COLUMN	18.0m		STR. #16	ITEM 203.18W	CLEAN
26	STR. #16		13.4m	STR. #17	ITEM 203.18W	CLEAN
27	B.I.N. 1093571 SB, PIER 5, EAST COLUMN	18.0m		STR. #17	ITEM 203.18W	CLEAN
28	STR. #17		9.8m	STR. #18	ITEM 203.18W	CLEAN
29	B.I.N. 1093572 NB, PIER 5, WEST COLUMN	18.0m		STR. #18	ITEM 203.18W	CLEAN
30	STR. #18		14.6m	STR. #19	ITEM 203.18W	CLEAN
31	B.I.N. 1093572 NB, PIER 5, EAST COLUMN	18.0m		STR. #19	ITEM 203.18W	CLEAN
32	STR. #19		12.6m	TO OUTLET	ITEM 203.18W/603.7301W	CLEAN AND REPLACE END SECTION
33	B.I.N. 1093572 NB, PIER 6, WEST COLUMN	14.0m		STR. #20	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
34	STR. #20			STR. #21		TO BE ABANDONED
35	B.I.N. 1093572 NB, PIER 6, EAST COLUMN	14.0m		STR. #21	ITEM 203.18W/589.520002W	CLEAN & OUTLET TO GROUND
36	STR. #21			TO OUTLET		TO BE ABANDONED
	PIER #1 BOTH BRIDGES	64.0m				
	PIER #9 SB (ONLY)	32.0m				
EST. TOTAL OF ITEM 203.18W IS 525 METERS.						

GENERAL NOTES:

THE QUANTITIES SHOWN ARE FOR THE PURPOSE OF ESTIMATING THE PROJECT, THE CONTRACTOR SHALL VERIFY THESE QUANTITIES.

ELEVATIONS TAKEN FROM ORIGINAL CONTRACT F.I.S.H. 70-7. CONTRACTORS SHALL VERIFY ELEVATIONS.

DRAINAGE RUNS AT THE TROUGHS ARE DIVIDED AT MID-POINT OF PIER.

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0259214	291	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

DRAINAGE STRUCTURE TABLE						
STR NO	LOCATION OF STRUCTURE	TYPE	EXISTING T.G.	EXISTING INV.	ITEM USED	REMARKS
1	B.I.N. 1093571 SB, PIER 2, WEST COLUMN	D.I. TYP D	125.882m	124.815m		TO BE ABANDONED
2	B.I.N. 1093571 SB, PIER 2, EAST COLUMN	D.I. TYP D	125.882m	124.724m		TO BE ABANDONED
3	B.I.N. 1093572 NB, PIER 2, WEST COLUMN	D.I. TYP D	125.882m	124.633m		TO BE ABANDONED
4	B.I.N. 1093572 NB, PIER 2, EAST COLUMN	D.I. TYP D	125.882m	124.541m		TO BE ABANDONED
5	35.4m EAST OF STRUCT. #4 OUTLET INTO 1.219m C.M.P.J	M.H. TYP A	125.882m	124.358m		NO WORK PLANNED
6	B.I.N. 1093571 SB, PIER 3, WEST COLUMN	D.I. TYP D	126.034m	124.998m		TO BE ABANDONED
7	B.I.N. 1093571 SB, PIER 3, EAST COLUMN	D.I. TYP D	126.034m	124.876m		TO BE ABANDONED
8	B.I.N. 1093572 NB, PIER 3, WEST COLUMN	D.I. TYP D	126.034m	124.705m		TO BE ABANDONED
9	B.I.N. 1093572 NB, PIER 3, EAST COLUMN	D.I. TYP D	126.034m	124.678m		TO BE ABANDONED
10	30.8m EAST OF STRUCT. #9 OUTLET INTO 1.219m C.M.P.J	M.H. TYP A	126.034m	124.571m	ITEM 203.19W	CLEAN
11	B.I.N. 1093571 SB, PIER 4, WEST COLUMN	D.I. TYP D	126.034m	125.120m	ITEM 203.19W	CLEAN
12	B.I.N. 1093571 SB, PIER 4, EAST COLUMN	D.I. TYP E	126.034m	124.876m	ITEM 203.19W	CLEAN
13	B.I.N. 1093572 NB, PIER 4, WEST COLUMN	D.I. TYP E	126.034m	124.785m	ITEM 203.19W	CLEAN
14	B.I.N. 1093572 NB, PIER 4, EAST COLUMN	D.I. TYP E	126.034m	124.693m	ITEM 203.19W	CLEAN
15	22.6m EAST OF STRUCT. #14 OUTLET INTO 1.219m C.M.P.J	M.H. TYP A	126.034m	124.541m	ITEM 203.19W	CLEAN
16	B.I.N. 1093571 SB, PIER 5, WEST COLUMN	D.I. TYP D	125.943m	124.876m	ITEM 203.19W	CLEAN
17	B.I.N. 1093571 SB, PIER 5, EAST COLUMN	D.I. TYP D	125.943m	124.785m	ITEM 203.19W	CLEAN
18	B.I.N. 1093572 NB, PIER 5, WEST COLUMN	D.I. TYP D	125.943m	124.893m	ITEM 203.19W	CLEAN
19	B.I.N. 1093572 NB, PIER 5, EAST COLUMN	D.I. TYP D	125.943m	124.571m	ITEM 203.19W	CLEAN
20	B.I.N. 1093572 NB, PIER 6, WEST COLUMN	D.I. TYP D	126.339m	125.425m		TO BE ABANDONED
21	B.I.N. 1093572 NB, PIER 6, EAST COLUMN	D.I. TYP D	126.339m	124.663m		TO BE ABANDONED
GRAND TOTAL OF 10 EACH OF ITEM 203.19W						

TABLE OF DITCH LINES			
DI NO	APPROX. LOCATION	ESTIMATED LENGTH	ITEM USED
1	PIER #2, FROM STR. 1 TO EXISTING DITCH LINE	60 METERS ±	206.02M
2	FROM PROPOSED DITCH LINE EXTENSION TO STR. 5	30 METERS ±	15203.51W
3	FROM @ PIER #2 TO @ PIER #3	47 METERS ±	15203.51W
4	FROM @ STR. 10 TO @ STR. 6	70 METERS ±	15203.51W
5	FROM @ STR. 20 TO ROW FENCE	50 METERS ±	206.02M

LIST OF ITEMS USED:

ITEM 203.18W - CLEAN CLOSED DRAINAGE SYSTEMS (C)D  
ITEM 203.19W - CLEAN DRAINAGE STRUCTURES AND MANHOLES (C)A  
ITEM 15203.51W - GRADING, CLEANING & RESHAPING EXISTING DITCH (C)D  
ITEM 206.02M - TRENCH & CULVERT EXCAVATION (C)D  
ITEM 589.520001W - REMOVAL OF EXISTING STEEL (C)A  
ITEM 589.520002W - REMOVAL OF EXISTING STEEL (C)A  
ITEM 603.7301W - REINF. CONC. PIPE END SECTION (C)A  
ITEM 610.0203M - ESTABLISH TURF (C)D  
ITEM 612.0205M - EROSION CONTROL MATERIAL (C)D

DITCH CLEANING NOTE:

IN CONJUNCTION WITH THE USE OF ITEM 15203.51W - GRADING, CLEANING & RESHAPING EXISTING DITCHES, ITEM 612.0205M - EROSION CONTROL MATERIAL AND ITEM 610.0203M - ESTABLISH TURF, SHALL ALSO BE INCORPORATED WITH ANY DITCH WORK.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF DRAINAGE RUNS & STRUCTURES

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.G1A 3 10/02 D017-3

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	292	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

#### GENERAL NOTES:

- EXISTING INLET DOWNSPOUT, ADJACENT DRAINAGE STRUCTURES AND CONNECTING DRAINAGE RUNS AT PIER #2 NB & SB, PIER #3 NB & SB AND PIER #6 NORTHBOUND ONLY, TO BE ABANDONED.
- EXISTING DRAINAGE PIPE (DUCTILE IRON PIPE) SHALL BE CUT OFF AT LOCATION SHOWN OR AS DIRECTED BY ENGINEER, AS PER SECTION 589 OF STANDARD SPECIF. (SEE MODIFICATION NOTES).
- THE ABANDONED INLET DOWNSPOUT PIPE (THE PORTION STILL IN THE GROUND) SHALL BE CAPPED WITH A DUCTILE IRON CAP, IN A MANNER ACCEPTABLE TO THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN BID PRICE FOR ITEM 576.2001M.
- THE CONTRACTOR SHALL NOTE THAT CLEANING THE DRAINAGE SYSTEM SHALL INCLUDE SCUPPERS, HOPPERS, TROUGHS AND DOWNSPOUTS. THE CLEANING OF THE DRAINAGE SYSTEM SHALL BE FROM THE BRIDGE DECK TO THE OUTLETTED DOWNSPOUTS.
- NO SHOP DRAWINGS SHALL BE REQUIRED FOR DOWNSPOUT ELBOW.
- SEE DRAWINGS NO. DD17-1 AND DD17-2 FOR MODIFICATION LOCATIONS.
- SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE WORK TO BE DONE.
- ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND PREVIOUS CONTRACT NUMBER D251436.
- ALL COSTS ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED DOWNSPOUT ELBOW & COUPLING TO BE INCLUDED IN THE BID PRICE FOR ITEM 576.2001M.
- SEE DRAWING NO. DD17-8 FOR MISC. DRAINAGE CLEANING DETAILS AND PLAN VIEW OF SPLASH PAD WITH STONE FILL.

#### ITEM CLARIFICATION NOTE:

ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 570.090001M  
BIN 1093572 NB SHALL USE ITEM 570.090002M

ITEM 572.010001M - STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED, IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 572.010001M  
BIN 1093572 NB SHALL USE ITEM 572.010002M

ITEM 589.520001M - REMOVAL OF EXISTING STEEL IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 589.520001M  
BIN 1093572 NB SHALL USE ITEM 589.520002M

ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE, IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE.

BIN 1093571 SB SHALL USE ITEM 571.010001M  
BIN 1093572 NB SHALL USE ITEM 571.010002M

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

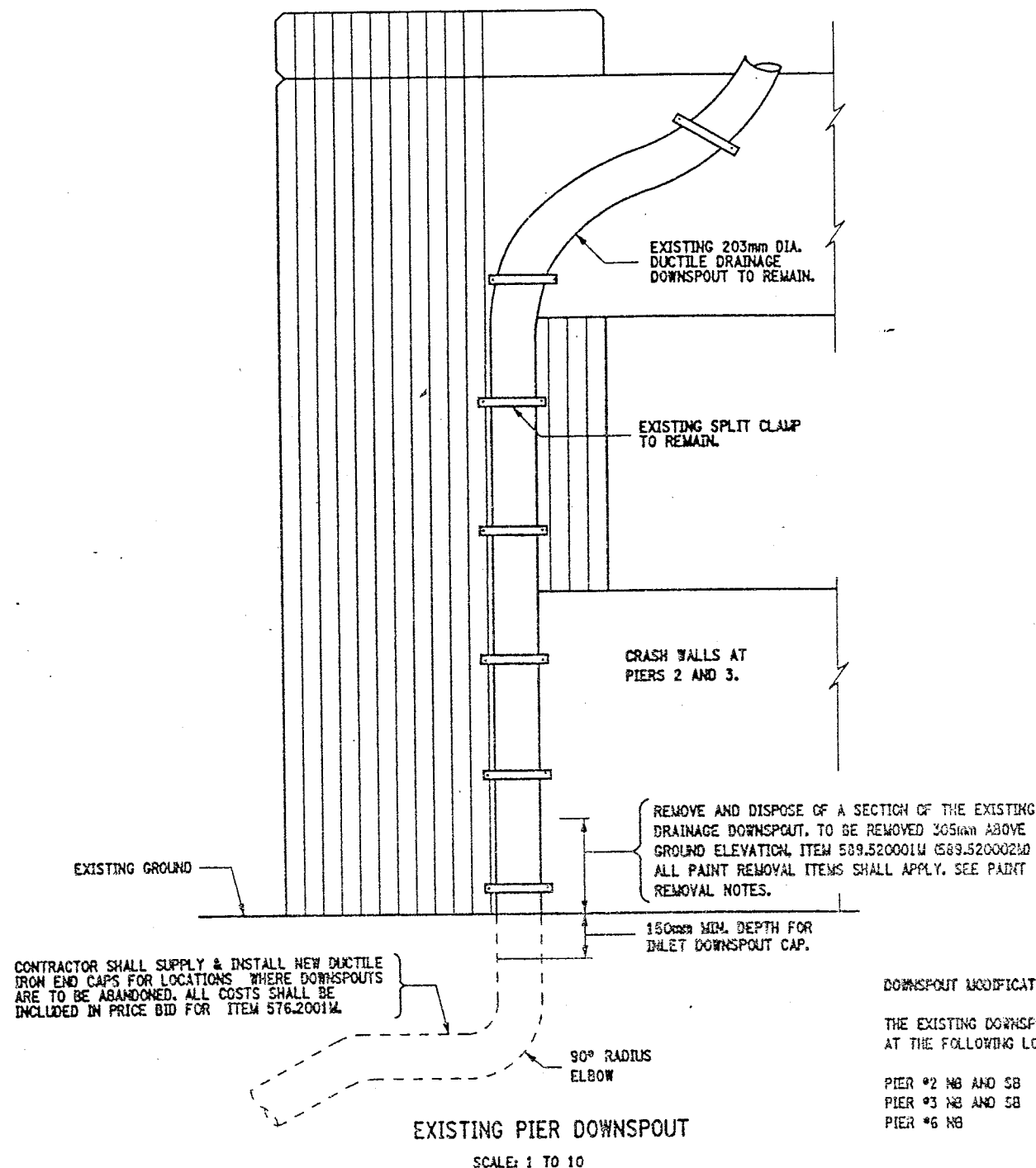
SIGNATURE DATE

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
MODIFICATION OF PIER DOWNSPOUTS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME 305613AE.D1A	REGION 3	DATE 10/02	DRAWING NO. DD17-4
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#### PAINT REMOVAL NOTES:

PAINT REMOVAL WORK SHALL BE DONE IN ACCORDANCE WITH REQUIREMENTS OF SECTION 741 OF STANDARD SPECIF.

REMOVE EXISTING PAINT FROM SPECIFIED ELEMENTS, PRIOR TO ANY CUTTING OR WELDING.

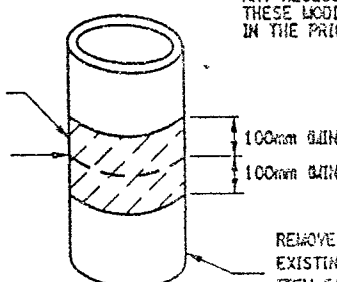
PAINT SHALL BE REMOVED TO 100mm MIN. FROM THE PROPOSED WELD/CUT LOCATION.

IN CONJUNCTION WITH THE USE OF ITEM 16570.72M - LOCALIZED VACUUM CONTAINED CLEANING OF STRUCTURAL STEEL, ITEM 570.090001M - ENVIRONMENTAL GROUND PROTECTION AND ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE, SHALL ALSO BE INCORPORATED DURING PAINT REMOVAL OPERATIONS, (SEE ITEM CLARIFICATION NOTE, THIS SHEET).

THIS PAINT REMOVAL OPERATION SHALL BE REGARDED AS "EXEMPT SMALL GENERATOR STATUS" AND ALL PROVISIONS OF PART 372, 6 NYCRR SHALL APPLY.

REMOVE EXISTING PAINT  
ITEM 16570.72M. SEE  
PAINT REMOVAL NOTES.

LOCATION OF  
PROPOSED CUT



LIMITS OF PAINT REMOVAL  
NOT TO SCALE

#### DOWNSPOUT MODIFICATION NOTES:

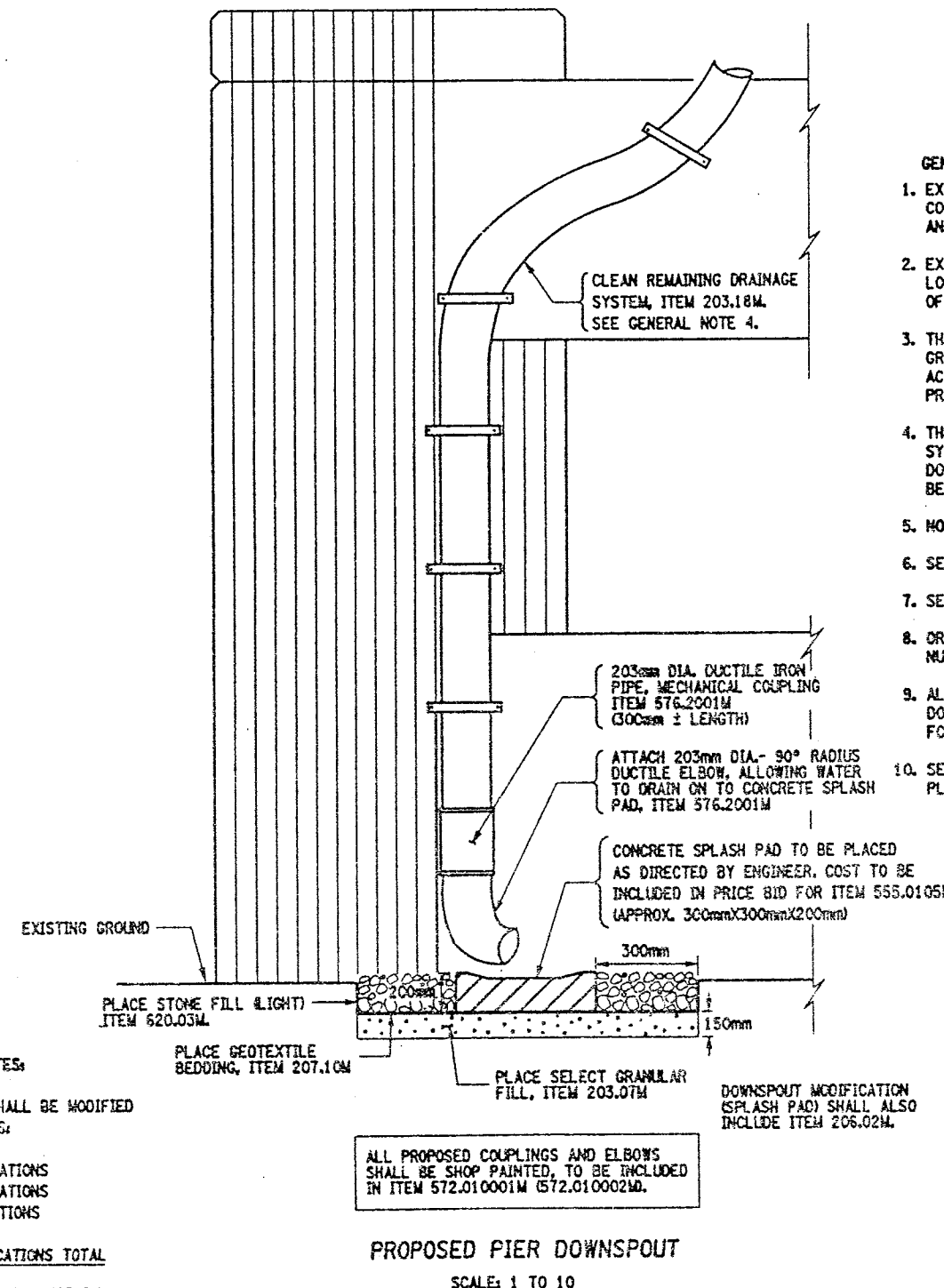
THE EXISTING DOWNSPOUTS SHALL BE MODIFIED AT THE FOLLOWING LOCATIONS:

PIER #2 NB AND SB	4 LOCATIONS
PIER #3 NB AND SB	4 LOCATIONS
PIER #6 NB	2 LOCATIONS

10 LOCATIONS TOTAL

ANY NECESSARY WORK NEEDED TO PERFORM THESE MODIFICATIONS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 576.2001M.

REMOVE A PORTION OF THE EXISTING DRAINAGE PIPE  
ITEM 589.520001M  
(SEE ITEM CLARIFICATION NOTE)



#### ITEMS USED:

ITEM 203.07M	- SELECT GRANULAR FILL, (CM)
ITEM 203.18M	- CLEAN CLOSED DRAINAGE SYSTEMS (m)
ITEM 206.02M	- TRENCH & CULVERT EXCAV. (CM)
ITEM 207.10M	- GEOTEXTILE BEDDING, (CM)
ITEM 555.0105M	- CONCRETE FOR STRUCTURES, CLASS "A" (CM)
ITEM 570.090001M	- ENVIRONMENTAL GROUND PROTECTION (LS)
ITEM 570.090002M	- ENVIRONMENTAL GROUND PROTECTION (LS)
ITEM 16570.72M	- LOCALIZED VACUUM CONT. CLEANING STRUCT. STEEL (CM)
ITEM 571.010001M	- TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE (CM)
ITEM 571.010002M	- TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE (CM)
ITEM 572.010001M	- STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED (CM)
ITEM 572.010002M	- STRUCTURAL STEEL PAINT SYSTEM: SHOP APPLIED (CM)
ITEM 589.520001M	- REMOVAL OF EXISTING STEEL (EA)
ITEM 589.520002M	- REMOVAL OF EXISTING STEEL (EA)
ITEM 576.2001M	- DOWNSPOUT SYSTEM, DUCTILE IRON (m)
ITEM 620.03M	- STONE FILL, LIGHT (CM)

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

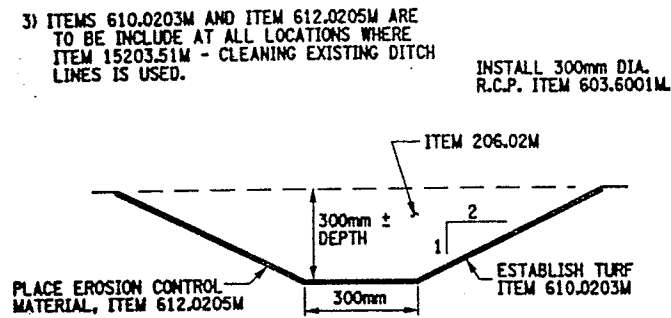
JOB MANAGER

DESIGN SUPERVISOR

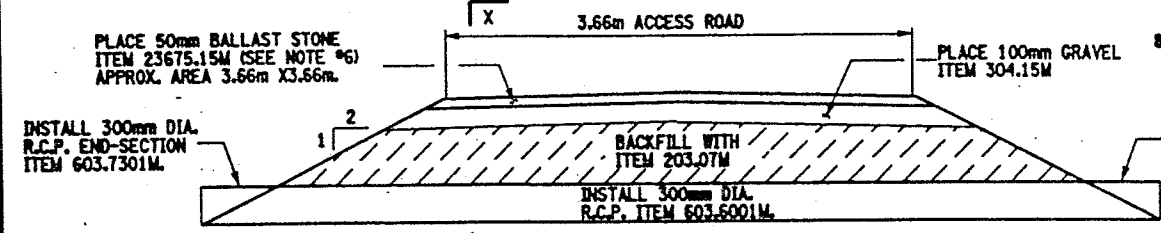


CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

**TYPICAL DITCH LINE NOTES:**  
1) SEE TABLE OF DITCH LINES DWG. NO. DD17-3.  
2) DIMENSIONS SHOWN ARE FOR ROUGH CALCULATIONS.  
3) ITEMS 610.0203M AND ITEM 612.0205M ARE TO BE INCLUDED AT ALL LOCATIONS WHERE ITEM 15203.51M - CLEANING EXISTING DITCH LINES IS USED.



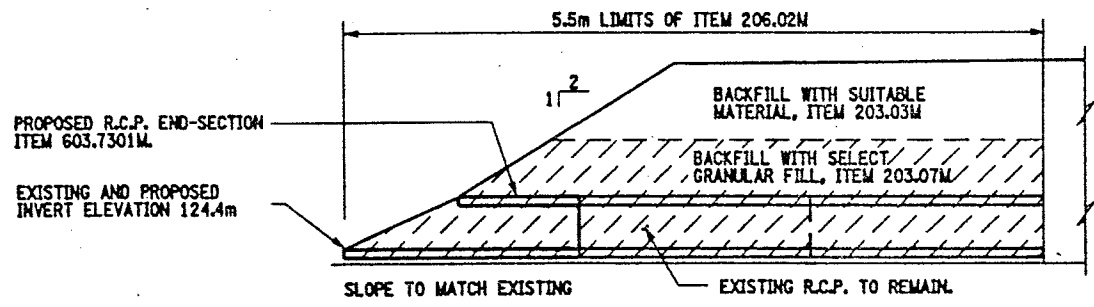
**TYPICAL DITCH LINE**  
DITCH LINE EXTENSION AT PIER #2  
NOT TO SCALE



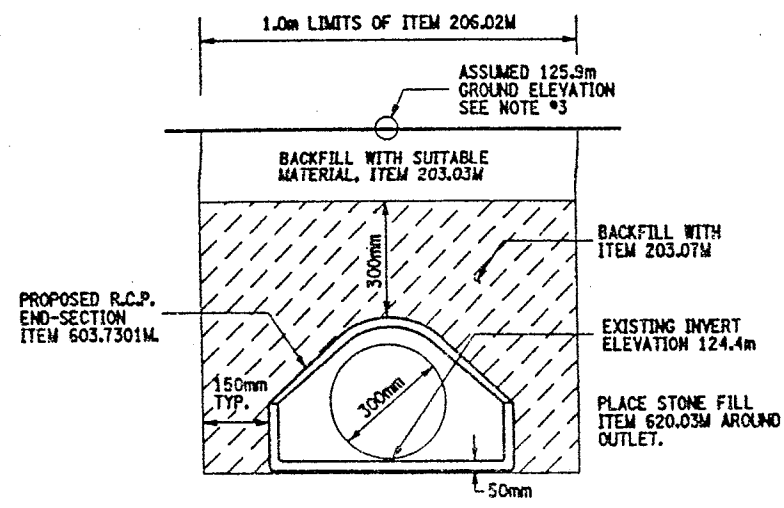
**PROPOSED CONCRETE PIPE SECTION X-X**  
NOT TO SCALE



**ELEVATION VIEW**  
NOT TO SCALE



**PROPOSED CONCRETE END-SECTION SECTION VIEW**  
DRAINAGE RUN #32  
NOT TO SCALE



**PROPOSED END-SECTION END VIEW**  
NOT TO SCALE

**END SECTION NOTES:**

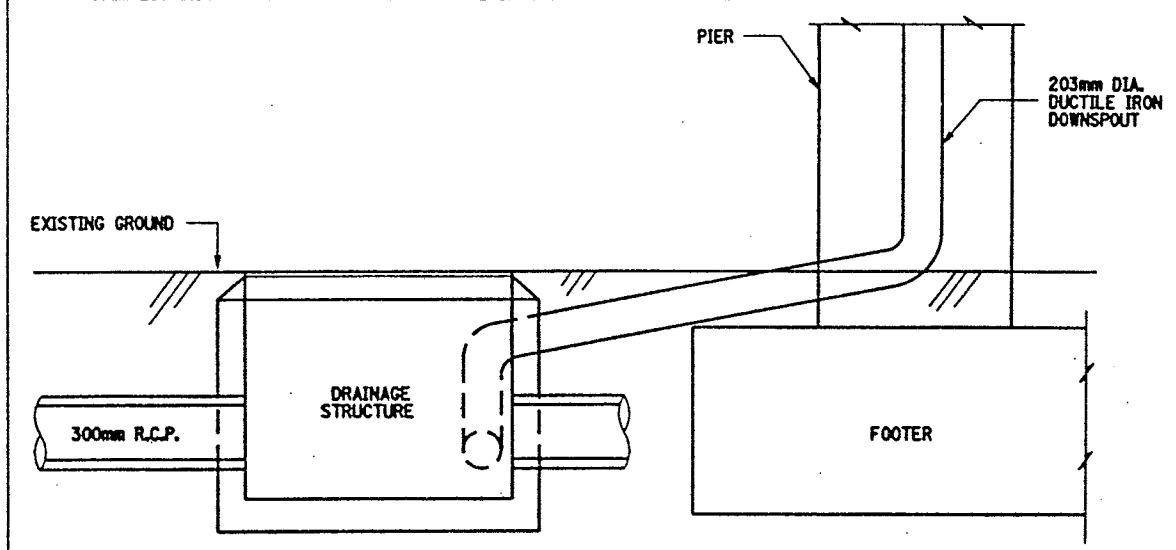
- 1) AT THE OUTLET OF DRAINAGE RUN #32 (SEE DWG. NO. DD17-2) REMOVE EXISTING R.C.P. END-SECTION AND INSTALL A NEW CONCRETE PIPE END-SECTION, ITEM 603.7301M.
- 2) ANCHORING OF THE PROPOSED END-SECTION SHALL BE AS PER SECTION 603-3.06 OF STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF THE ENGINEER. COST BE INCLUDED IN THE BID PRICE FOR ITEM 603.7301M.
- 3) THE ASSUMED GROUND ELEVATION IS TAKEN FROM THE DRAINAGE STRUCTURE TABLE ON DRAWING NO. DD17-3 USING STRUCTURE #19 EXISTING T.G. ELEVATION. CONTRACTOR SHALL VERIFY ALL ELEVATIONS, ITEM 625.01M.
- 4) REFER TO NYS STANDARD SHEET M603-1.
- 5) INSTALLATION OF R.C.P. END-SECTION SHALL INCLUDE STONE FILL, ITEM 620.03M, PLACED A.O.B.E.)

**CULVERT PIPE NOTES:**

- 1) EXTEND EXISTING DITCH LINE FROM ITS CURRENT LOCATION (SEE DWG. NO. DD17-1) APPROXIMATELY 20 METERS EAST OF PIER #2. TO 5 METERS BEYOND PIER #2, WEST SIDE. THE COST TO BE PAID UNDER ITEM 206.02M, REFER TO "TABLE OF DITCH LINES" DWG. NO. DD17-3 FOR DITCH LINE NUMBER #1.
- 2) INSTALL PIPE CULVERT TO PROVIDE RAILROAD (CSX) ACCESS TO PIER 2. THE EXACT LOCATION OF THE PROPOSED CULVERT SHALL BE DETERMINED BY THE ENGINEER.
- 3) THE PROPOSED CULVERT PIPE SLOPE TO MATCH THE SLOPE OF THE EXISTING DITCH LINE. NOTE, NO EXISTING SURVEY AVAILABLE, ITEM 625.01M, "SURVEY & STAKEOUT" IS INCLUDED IN CONTRACT. NO PROPOSED INVERT ELEVATIONS GIVEN.
- 4) REFER TO NYS STANDARD SHEETS M203-4, M203-5 M203-6R1 AND M603-1.
- 5) NO LEAKAGE TEST REQUIRED.
- 6) FINISHED GRADE AT PROPOSED CULVERT INSTALLATION PLACEMENT OF ITEM 23675.15M, SHALL BE APPROVED BY CSXT DISTRICT ENGINEER. IF THIS MATERIAL DOES NOT SATISFY THE RAILROAD REQUIREMENTS FOR "APPROVED RAILROAD BALLAST STONE", THEN THE APPROPRIATE MATERIAL SHALL BE SUBSTITUTED FOR ITEM 23675.15M AT NO ADDITIONAL COST TO THE STATE.
- 7) THE CLASS & SIZE REQUIREMENTS FOR THE BALLAST STONE ITEM 23675.15M, SHALL BE DETERMINED BY THE ENGINEER.
- 8) INSTALLATION OF R.C.P. END-SECTIONS SHALL INCLUDE STONE FILL, ITEM 620.03M, PLACED AT INLET & OUTLET OF RCP END-SECTIONS, A.O.B.E.)

**ITEMS USED:**

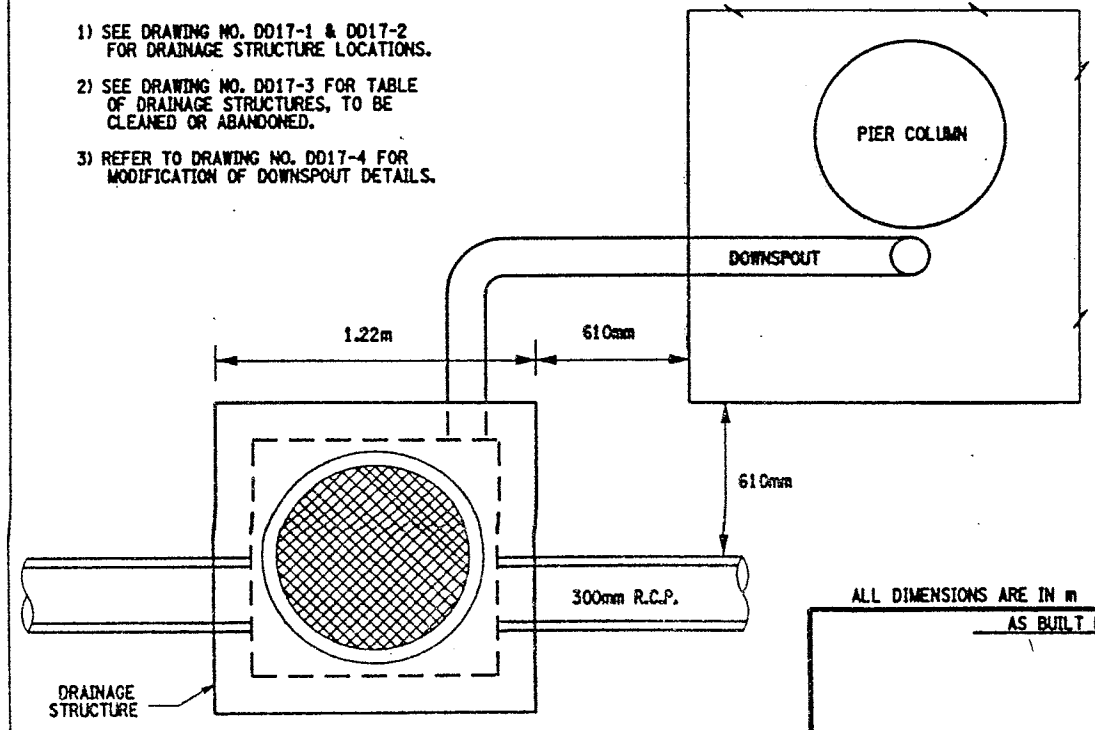
- ITEM 203.03M - EMBANKMENT IN PLACE (CM)
- ITEM 203.07M - SELECT GRANULAR FILL (CM)
- ITEM 206.02M - TRENCH & CULVERT EXCAVATION (CM)
- ITEM 304.15M - SUBBASE COURSE, OPTIONAL (CM)
- ITEM 603.6001M - REINFORCED CONCRETE PIPE CLASS III (M)
- ITEM 603.7301M - REINFORCED CONCRETE PIPE END SECTION (EACH)
- ITEM 610.0203M - ESTABLISHING TURF (SM)
- ITEM 612.0205M - EROSION CONTROL MATERIAL, CLASS II TYPE B (SM)
- ITEM 620.03M - STONE FILL, LIGHT, (CM)
- ITEM 625.01M - SURVEY & STAKEOUT (L.S.)
- ITEM 23675.15M - FURNISH AND PLACE STONE BALLAST SURFACING COURSE (MT)



**TYPICAL ELEVATION VIEW**  
DRAINAGE STRUCTURES ADJACENT TO PIERS (RR YARD).  
NOT TO SCALE

**DRAINAGE STRUCTURE NOTES:**

- 1) SEE DRAWING NO. DD17-1 & DD17-2 FOR DRAINAGE STRUCTURE LOCATIONS.
- 2) SEE DRAWING NO. DD17-3 FOR TABLE OF DRAINAGE STRUCTURES, TO BE CLEANED OR ABANDONED.
- 3) REFER TO DRAWING NO. DD17-4 FOR MODIFICATION OF DOWNSPOUT DETAILS.



**TYPICAL PLAN VIEW**  
DRAINAGE STRUCTURES ADJACENT TO PIERS (RR YARD).  
NOT TO SCALE

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	293	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

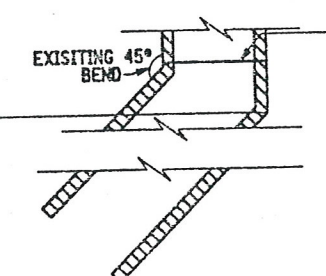
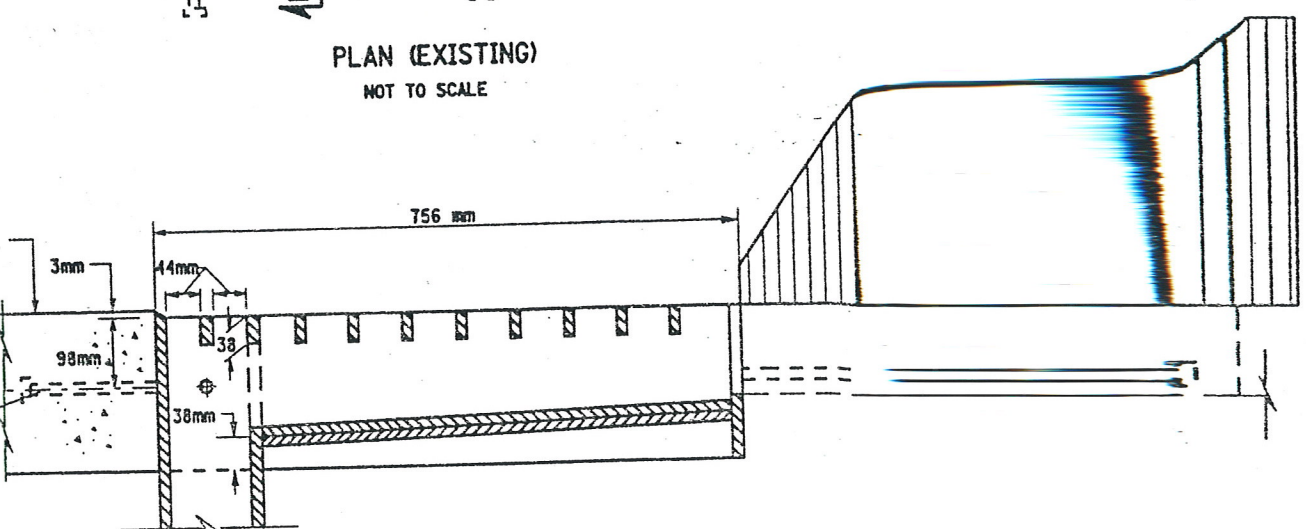
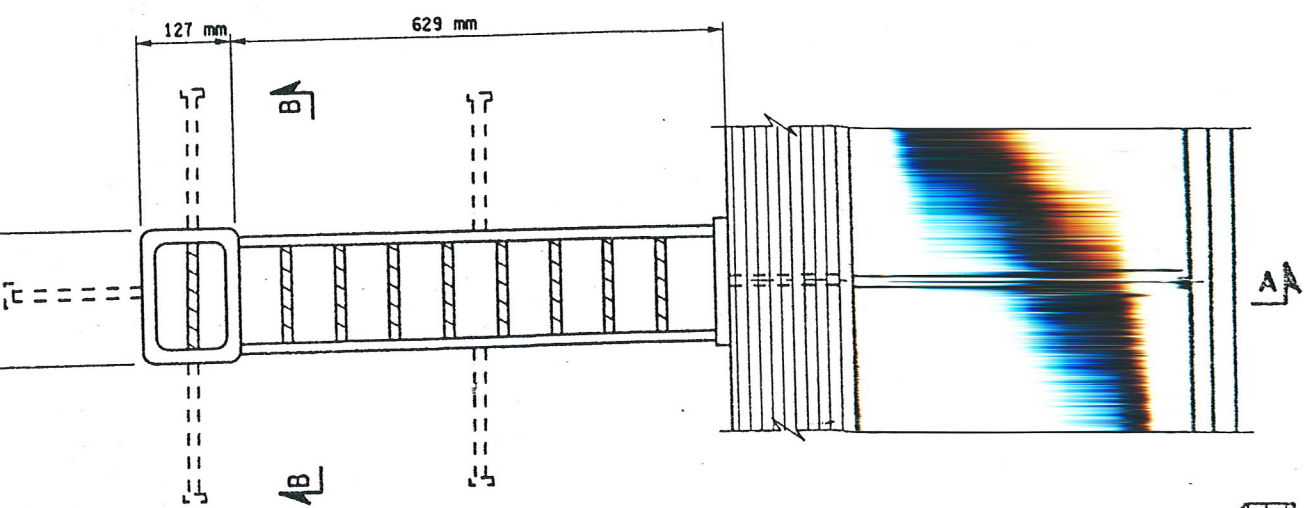
SIGNATURE		DATE	
INTERSTATE 481 NB AND SB OVER CSX RAILROAD YARD MISCELLANEOUS DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.D1A	REGION 3	DATE 10/02	DRAWING NO. DD17-5

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	294	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613		B.I.N. 1093571 & 1093572		

# NOTES:

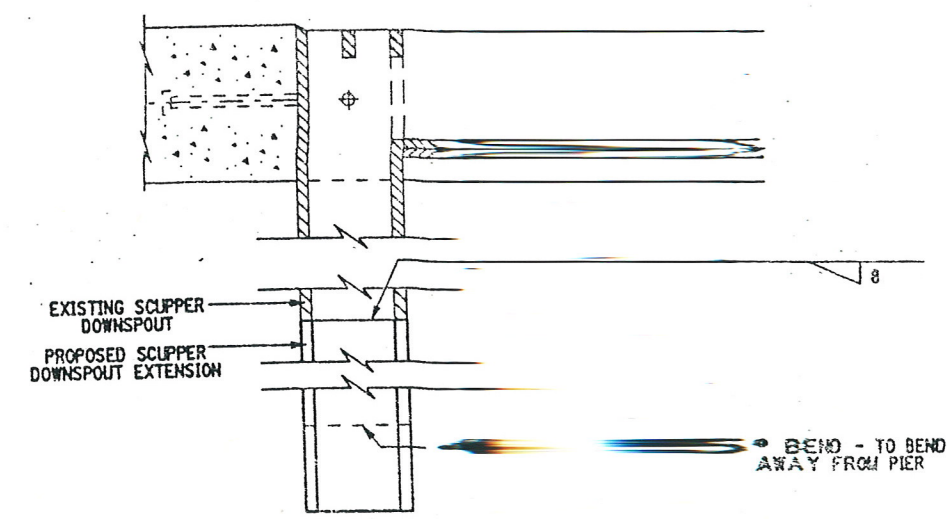
1) ALL WORK AND MATERIALS NECESSARY FOR SCUPPER ADJUSTMENT AND EXTENSION SHALL BE INCLUDED IN PRICE BID FOR ITEM 590.01M.

SCUPPER LOCATION TABLE			
	LOCATION	EAST CURB LINE	WEST CURB LINE
SOUTHBOUND BIN 1093571	SOUTH SIDE OF PIER 8	1	1
	SOUTH SIDE OF PIER 10	1	---
	SOUTH SIDE OF PIER 11	1	---
	SOUTH SIDE OF PIER 12	1	---
	SOUTH SIDE OF PIER 13	1	---
	SOUTH SIDE OF PIER 14	1	---
NORTHBOUND BIN 1093572	SOUTH SIDE OF PIER 8	1	1
	SOUTH SIDE OF PIER 9	1	1
	SOUTH SIDE OF PIER 10	1	---
	SOUTH SIDE OF PIER 11	1	---
	SOUTH SIDE OF PIER 12	1	---
	SOUTH SIDE OF PIER 13	1	---
TOTALS		13	3

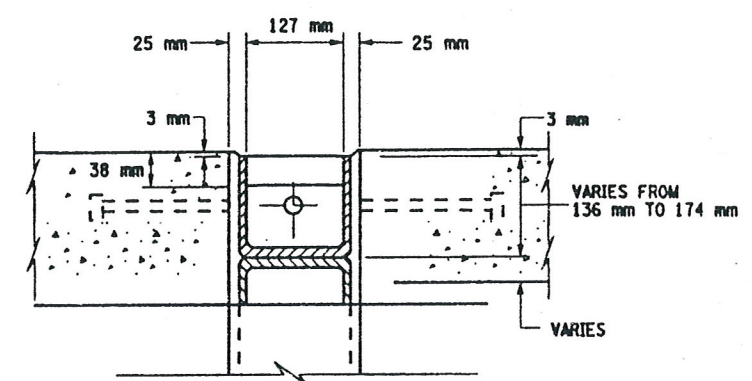


CUT EXISTING PIPE AND WELD PROPOSED DIAGONAL PIPE TO DIMENSIONS SHOWN IN DETAIL B.

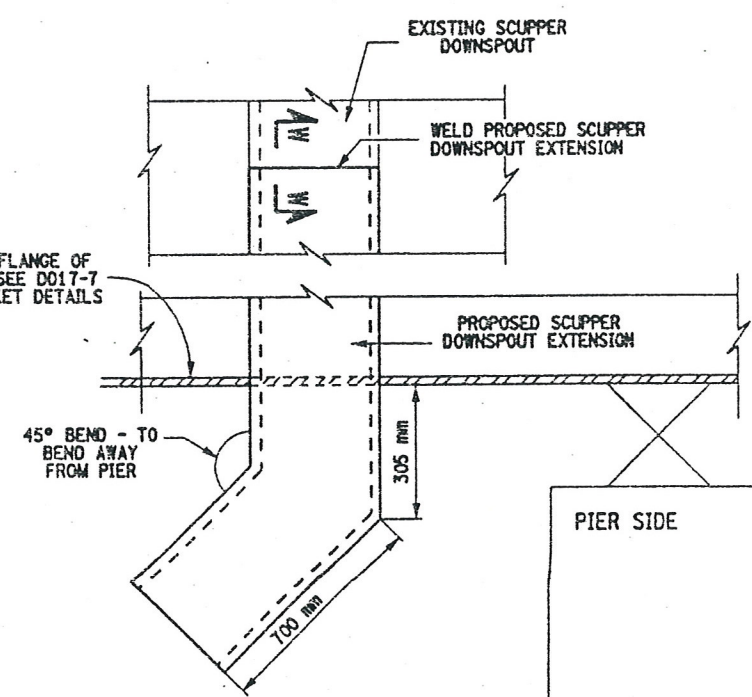
SECTION A-A (EXISTING)  
NOT TO SCALE



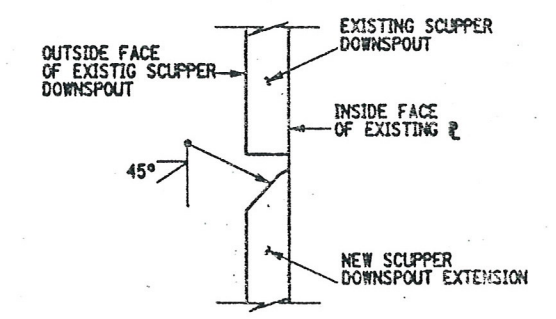
DETAIL B (PROPOSED)  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE



DETAIL A (PROPOSED)  
NOT TO SCALE



SECTION W-W  
NOT TO SCALE

LIST OF ITEMS USED:  
ITEM 590.01M - VERT. ADJUSTMENT OF BRIDGE DRAINAGE DEVICES (EA)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
SCUPPER EXTENSIONS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

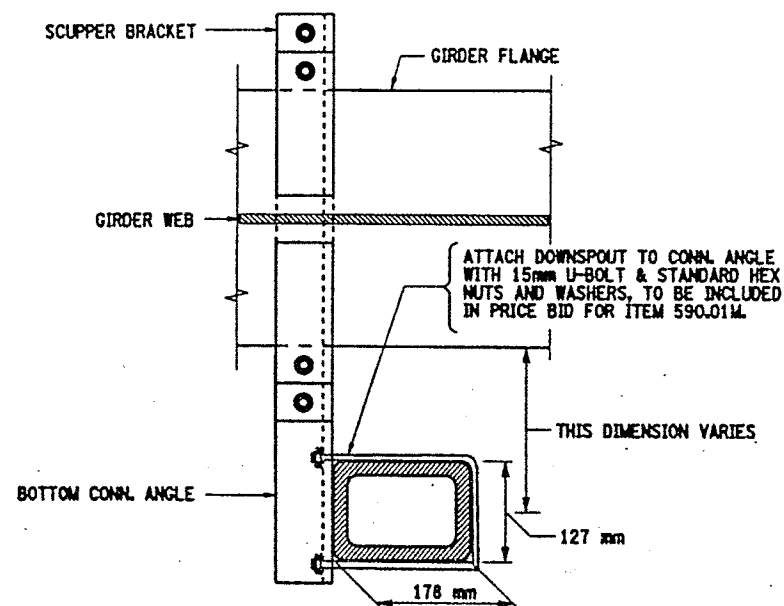
FILENAME 305613AE.DS1 REGION 3 DATE 10/02 DRAWING NO. DD17-6

DESIGN SUPERVISOR — JOB MANAGER — DESIGNED BY — CHECKED BY — ESTIMATED BY — DRAFTED BY — CHECKED BY —

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	295	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.J.N. 1093571 & 1093572		

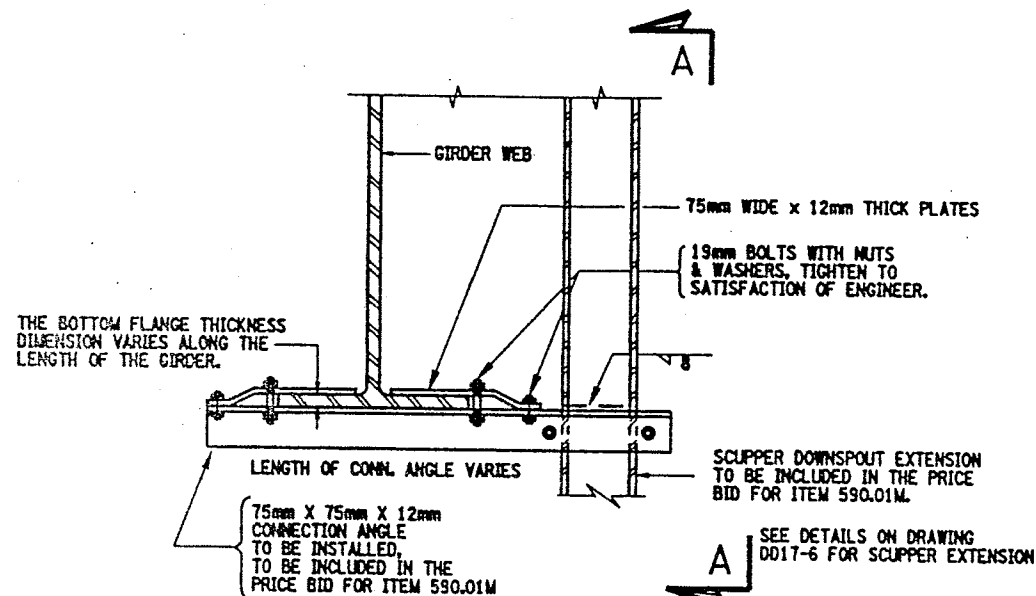
#### NOTES

1. AN APPROVED TYPE OF REMOVABLE DIFFUSER SHALL BE INSTALLED ON ALL OPEN-ENDED SCUPPERS, COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01M.
2. EVERY OPEN DRAINAGE SCUPPER DOWNSPOUT SHALL BE EXTENDED TO 305mm MINIMUM, BELOW THE BOTTOM FLANGE, COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01M.
3. ALL PROPOSED BRACKETS AND CONNECTION HARDWARE SHALL BE FABRICATED FROM ASTM A36M STEEL.
4. ALL PROPOSED BRACKETS SHALL BE SHOP PAINTED PRIOR TO INSTALLATION COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 590.01 M DOWNSPOUT EXCLUDED.
5. NO WELDING TO, OR CUTTING OF, OR DRILLING INTO ANY STRUCTURAL STEEL WILL BE ALLOWED.
6. SCUPPER EXTENSION SHALL BE GALVANIZED IN ACCORDANCE WITH N.Y.S. STD. SPECIFICATIONS SUBSECTION 719-01.



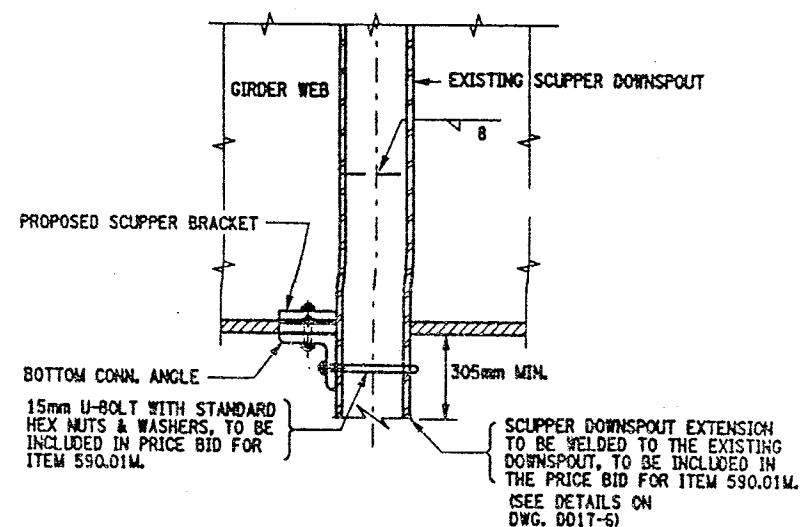
PROPOSED SCUPPER BRACKET DETAILS  
PLAN VIEW

SCALE 1:10



PROPOSED SCUPPER BRACKET DETAILS

SCALE 1:10



PROPOSED SCUPPER BRACKET DETAILS  
SECTION A-A

SCALE 1:10

LIST OF ITEMS USED:

ITEM 590.01M - VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES (EA)

ALL DIMENSIONS ARE IN #1 UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB AND SB  
OVER  
CSX RAILROAD YARD  
SCUPPER EXTENSIONS

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

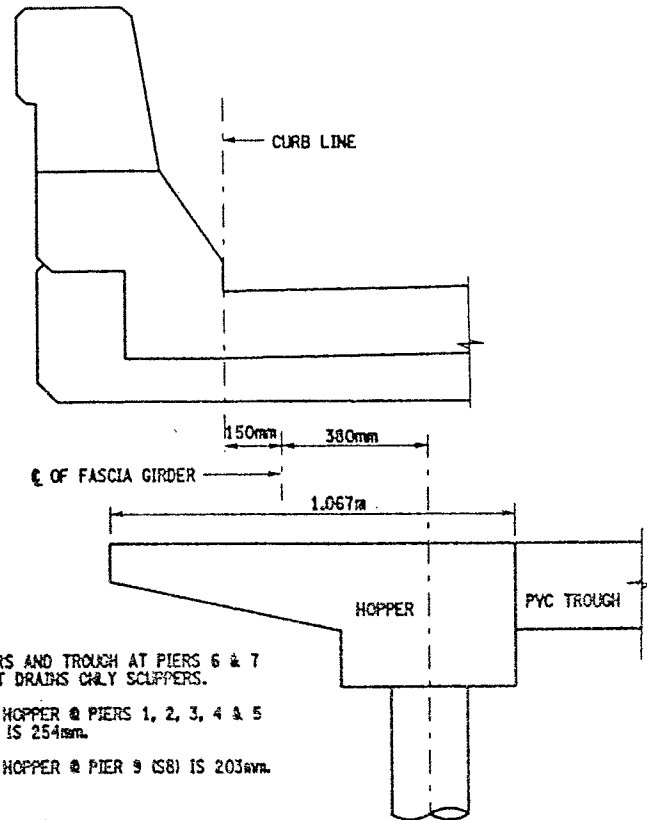


FILENAME 305613AE.DS1	REGION 3	DATE 10/02	DRAWING NO. D017-7
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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	296	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.L.N. 1093571 & 1093572	

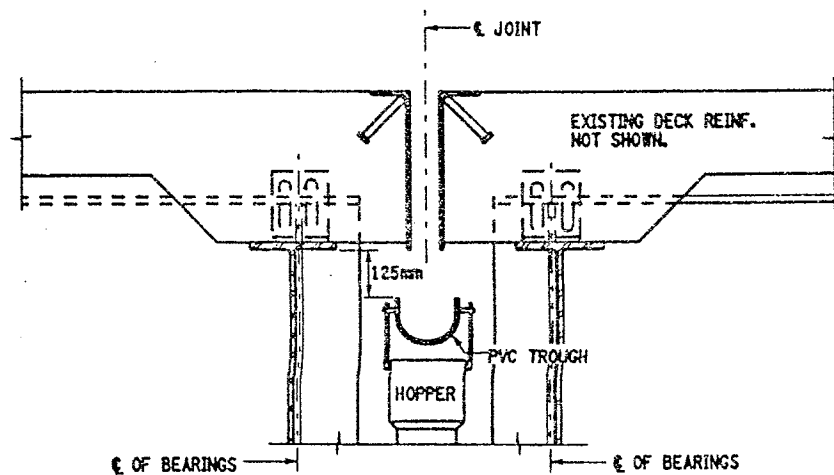


NO HOPPERS AND TROUGH AT PIERS 6 & 7  
DOWNSPOUT DRAINS ONLY SCUPPERS.

WIDTH OF HOPPER @ PIERS 1, 2, 3, 4 & 5  
(NB & SB) IS 254mm.

WIDTH OF HOPPER @ PIER 9 (SB) IS 203mm.

DRAINAGE SYSTEM HOPPER DETAIL  
ELEVATION VIEW  
NOT TO SCALE

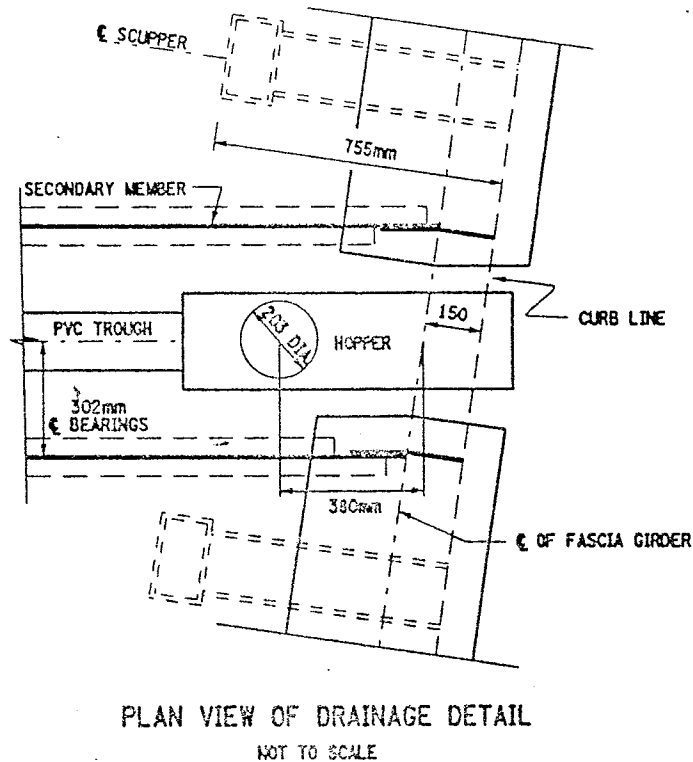


EXISTING PIER  
OPEN JOINT TYPICAL

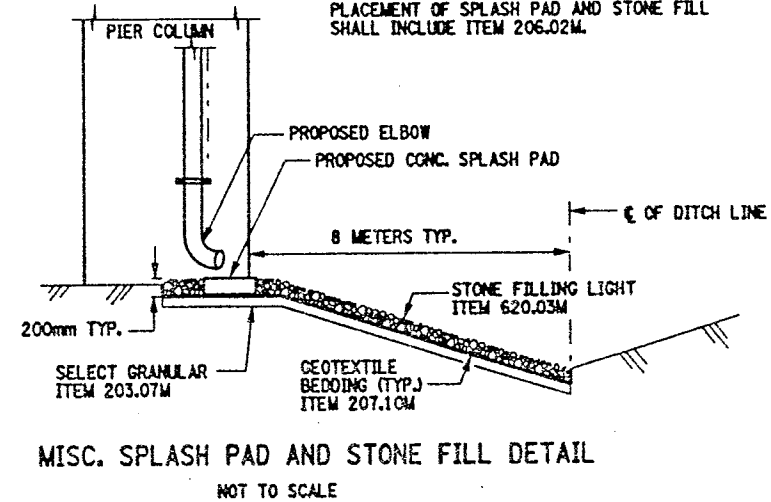
BIN 1093571 - PIERS 1, 2, 3, 4, 5 & 9  
BIN 1093572 - PIERS 1, 2, 3, 4 & 5

NOT TO SCALE

CLEAN DRAINAGE STRUCTURE  
ITEM 203.19M.



PLAN VIEW OF DRAINAGE DETAIL  
NOT TO SCALE



MISC. SPLASH PAD AND STONE FILL DETAIL  
NOT TO SCALE

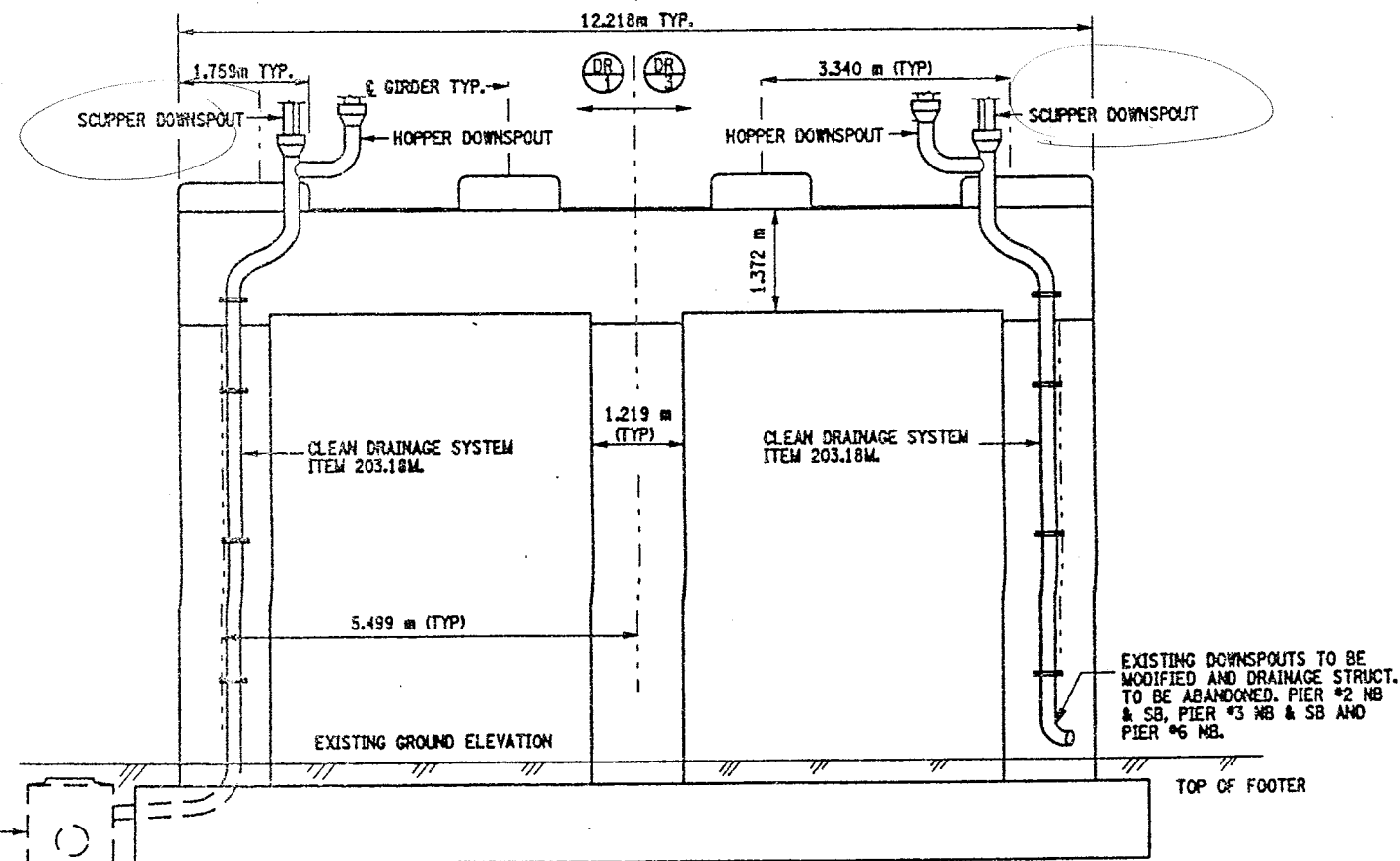
#### NOTES:

SPLASH PAD & STONE FILLING TO BE PLACED  
AT EACH MODIFIED DOWNSPOUT LOCATION  
(PIER'S 2 & 3). STONE FILL SHALL BE PLACED  
FROM SPLASH PAD TO E OF DITCH LINE.

TYPICAL WIDTH OF STONE FILLING 900mm.

PROPOSED STONE FILL SLOPE TO MATCH  
EXISTING SLOPE.

PLACEMENT OF SPLASH PAD AND STONE FILL  
SHALL INCLUDE ITEM 206.02M.



EXISTING DRAINAGE STRUCTURES  
TO BE CLEANED AT PIER #4 NB  
& SB AND PIER #5 NB & SB.

TYPICAL PIER DETAIL  
NOT TO SCALE

#### CLEAN DRAINAGE SYSTEM NOTE:

THE FOLLOWING CLOSED DRAINAGE SYSTEMS SHALL BE CLEANED  
UNDER THIS CONTRACT.

BIN 1093571 - PIERS 1, 2, 3, 4, 5, 6 & 9  
BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6

NOTE, PIER #6 (BOTH STRUCTURES) THE TYPE OF BRIDGE JOINT  
IS AN ARMORED JOINT WITH COMPRESSION SEAL. THE DOWNSPOUTS  
ARE CONNECTED TO THE BRIDGE SCUPPERS.

THE CLEANING OF THE EXISTING DRAINAGE SYSTEM (ITEM 203.18M)  
SHALL BE FROM HOPPER (FASCIA GIRDER) TO HOPPER (FASCIA  
GIRDER) AND SHALL INCLUDE THE PVC TROUGH AND THE ENTIRE  
DOWNSPOUT SYSTEM (DIA. OF DOWNSPOUTS VARY) FROM HOPPERS  
TO OUTLET. REFER TO DWG. NO. D017-1 THRU DWG. NO. D017-4  
FOR DRAINAGE DETAILS AND PROPOSED MODIFICATIONS TO PIER  
DOWNSPOUTS.

FOR QUANTITIES OF ITEMS SEE DRAINAGE RUN TABLE  
ON DRAWING NO. D017-3.

CONTRACTOR SHALL TAKE CARE WHEN PERFORMING CLEANING  
OPERATION NOT TO DAMAGE THE EXISTING DRAINAGE SYSTEM.  
ANY DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE  
REPAIRED OR REPLACED AS DEEMED NECESSARY BY THE ENGINEER  
AT NO ADDITIONAL COST TO THE STATE.

DRAINAGE RUN TABLE ON DWG. NO. D017-3, THE DRAINAGE  
TROUGH'S ARE DIVIDED AT MID-PIER OF PIER.

SEE ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 FOR EXISTING PIER  
ELEVATIONS.

SEE DRAWING NO. D017-4 FOR PROPOSED PIER DOWNSPOUT DETAILS.

#### ITEMS USED:

ITEM 203.07M - SELECT GRANULAR FILL, 6CM  
ITEM 207.10M - GEOTEXTILE BEDDING, 1500  
ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (NB  
ITEM 203.19M - CLEAN DRAINAGE STRUCTURES & MANHOLES (SA)  
ITEM 620.03M - STONE FILL, LIGHT, 6CM

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 OVER CSX RR YARD	
DRAINAGE CLEANING DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.DS1	REGION 3
DATE 10/02	DRAWING NO. D017-8

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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	297	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-25 FOR SECTIONS A-A, B-B, D-D, E-E AND F-F.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

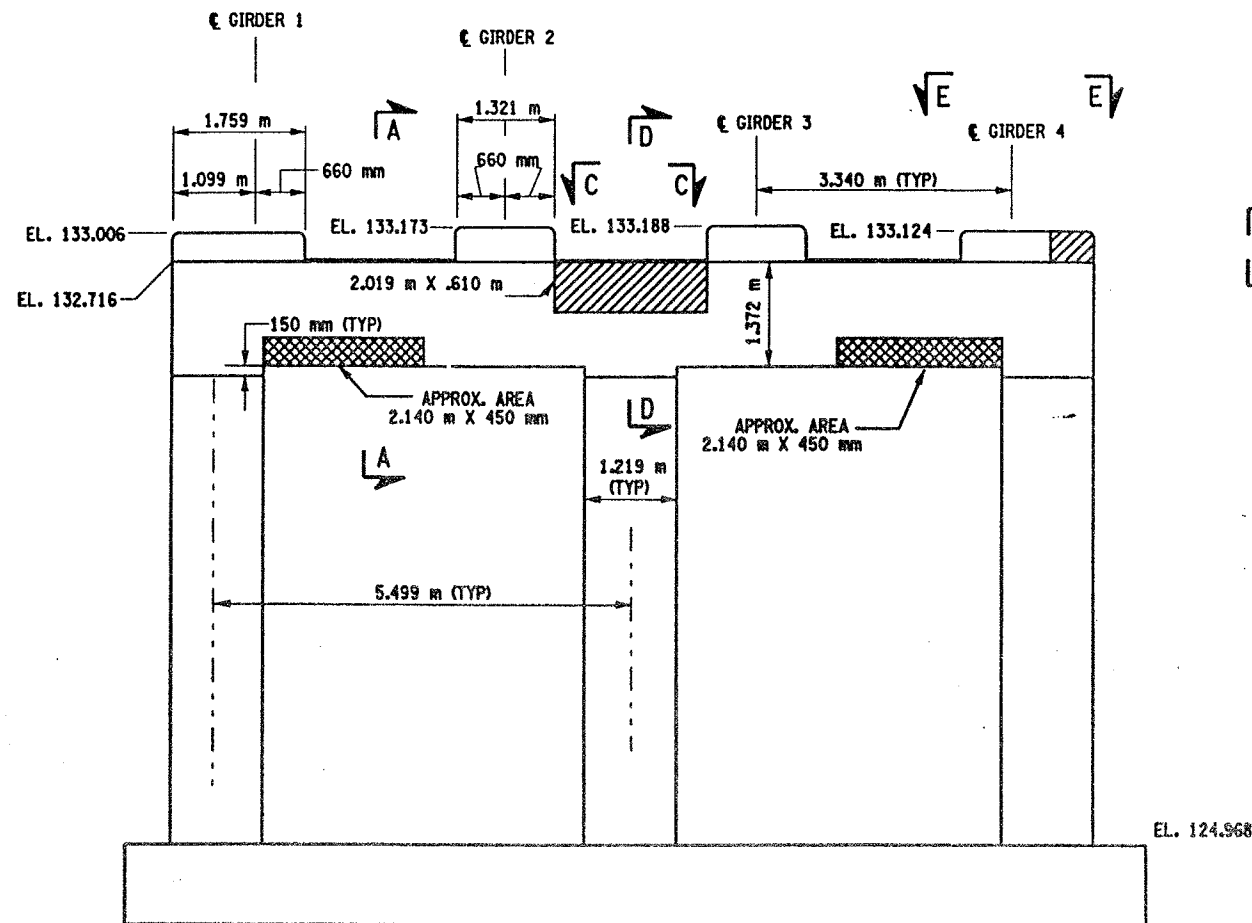
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

BRIDGE BEARING RESTORATION NOTES:

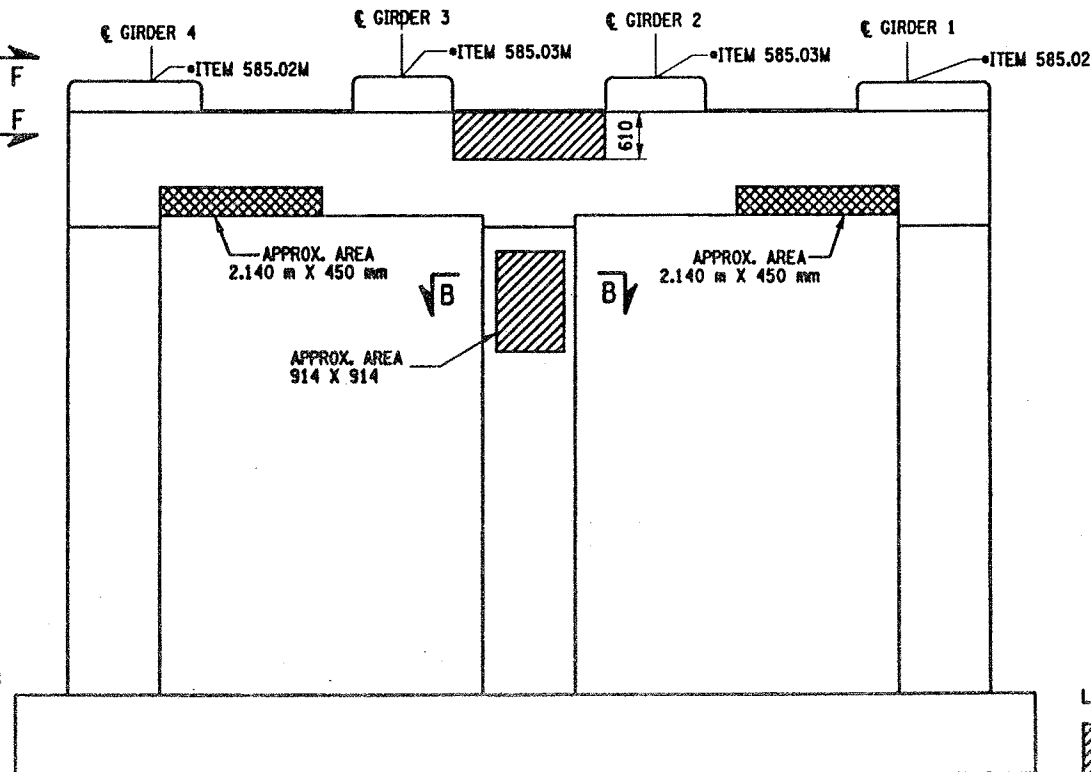
- BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
- STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
- IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
- BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
- FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 1	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P1A	REGION 3
DATE 10/02	DRAWING NO. PR17-1S



PIER 1 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 1 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50

JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY CHIEF ENGINEER (STRUCTURES), DSES, TWO WEEKS PRIOR TO THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

WHERE THE CONTRACTOR IS REQUIRED TO PERFORM BEARING RESTORATION (SEE BR-11) AS WELL AS CONCRETE REPAIRS REQUIRING STRUCTURAL LIFTING, ONLY ONE STRUCTURAL LIFTING PAYMENT WILL BE MADE.

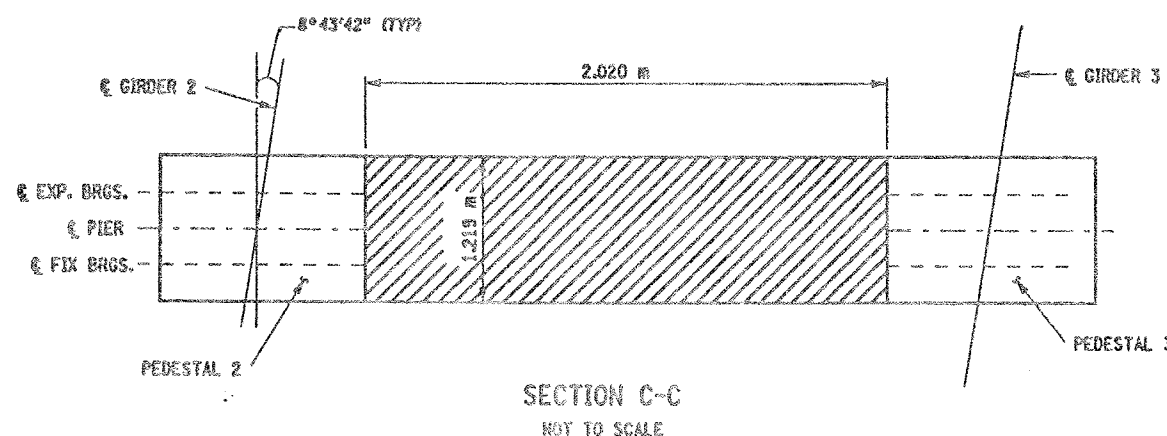
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (EA)



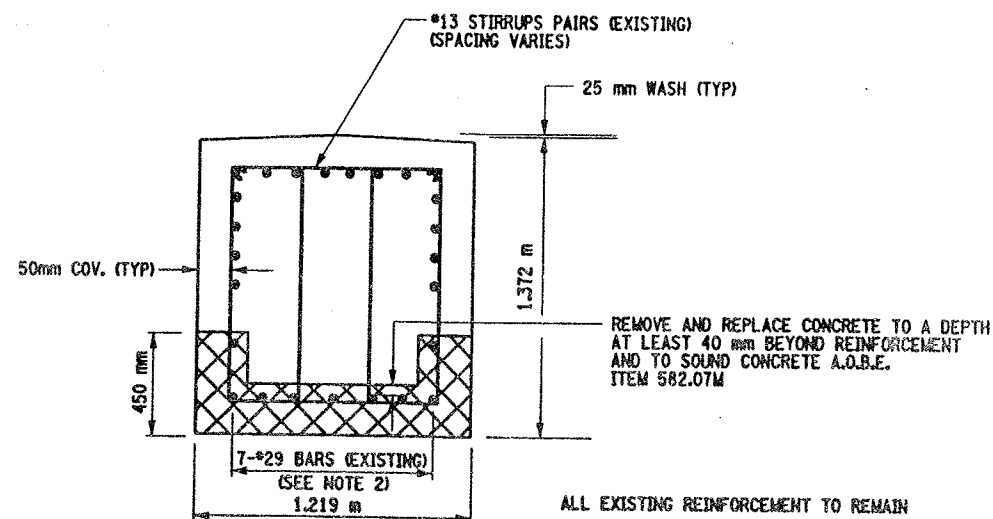
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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	298	432

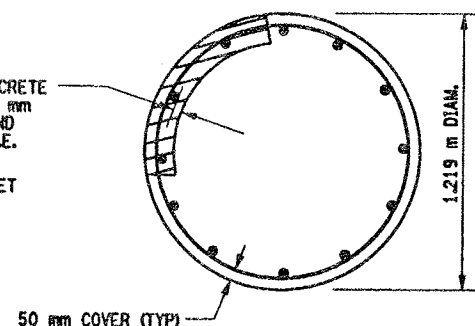
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.J.N. 305613	B.J.N. 1093571

NOTES:

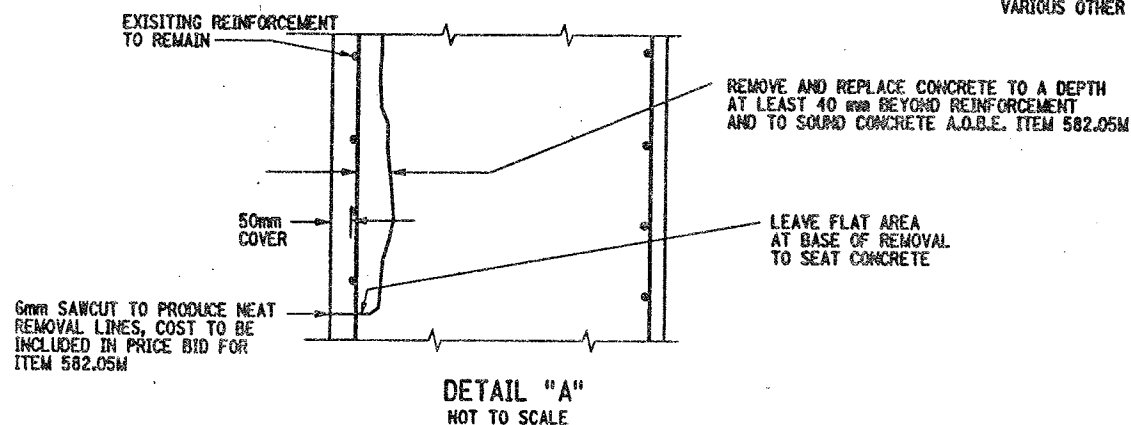
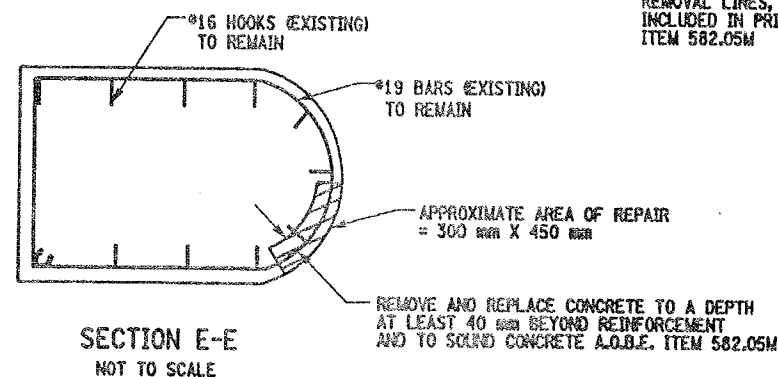
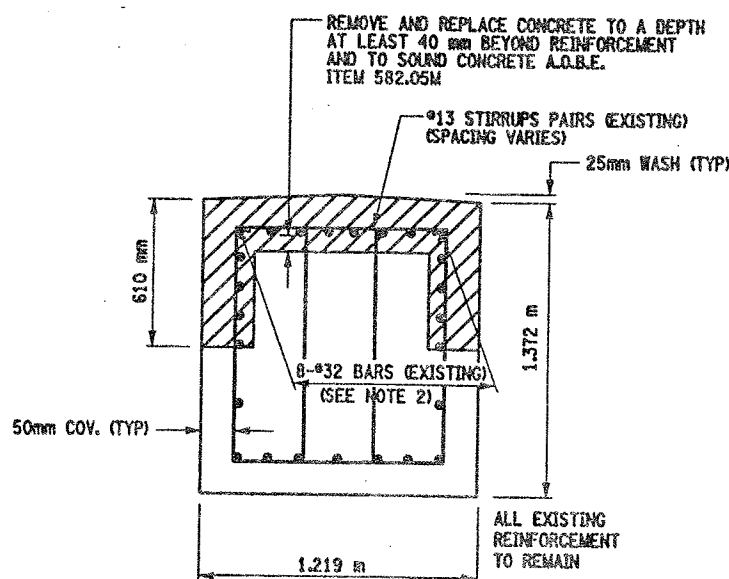
1. ALL CONCRETE REMOVAL OPERATIONS SHALL INCLUDE SAW CUTTING TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN PRICE BID FOR THE APPROPRIATE REMOVAL ITEM.
2. THE REINFORCEMENT SHOWN IS TYPICAL FOR PIER #1. THE NUMBER AND OR SIZE OF REINFORCEMENT IN OTHER PIERS MAY VARY.
3. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
4. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.



REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M  
SEE DETAIL "A" THIS SHEET



THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.



LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 1

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.P1A 3 10/02 PR17-25

LIST OF ITEMS USED:

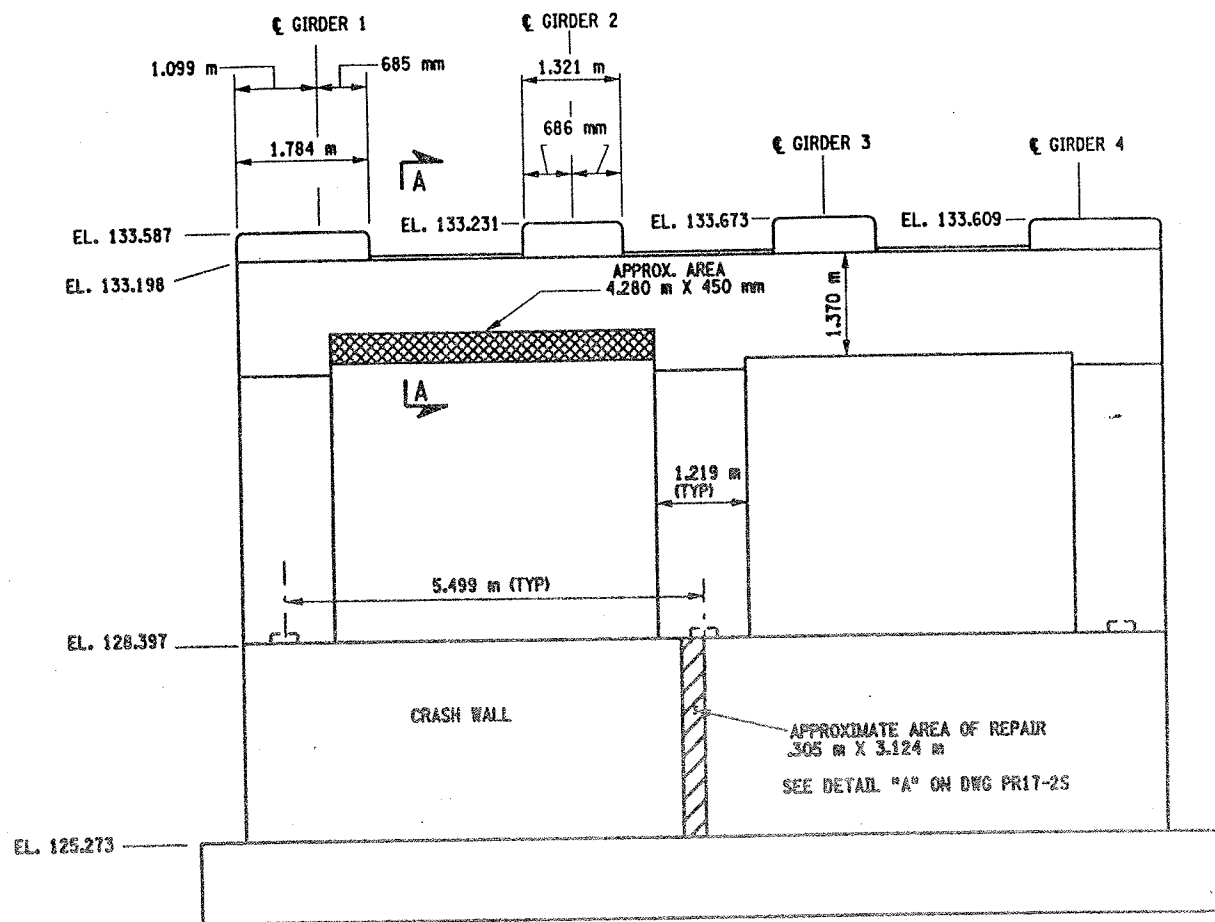
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	299	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

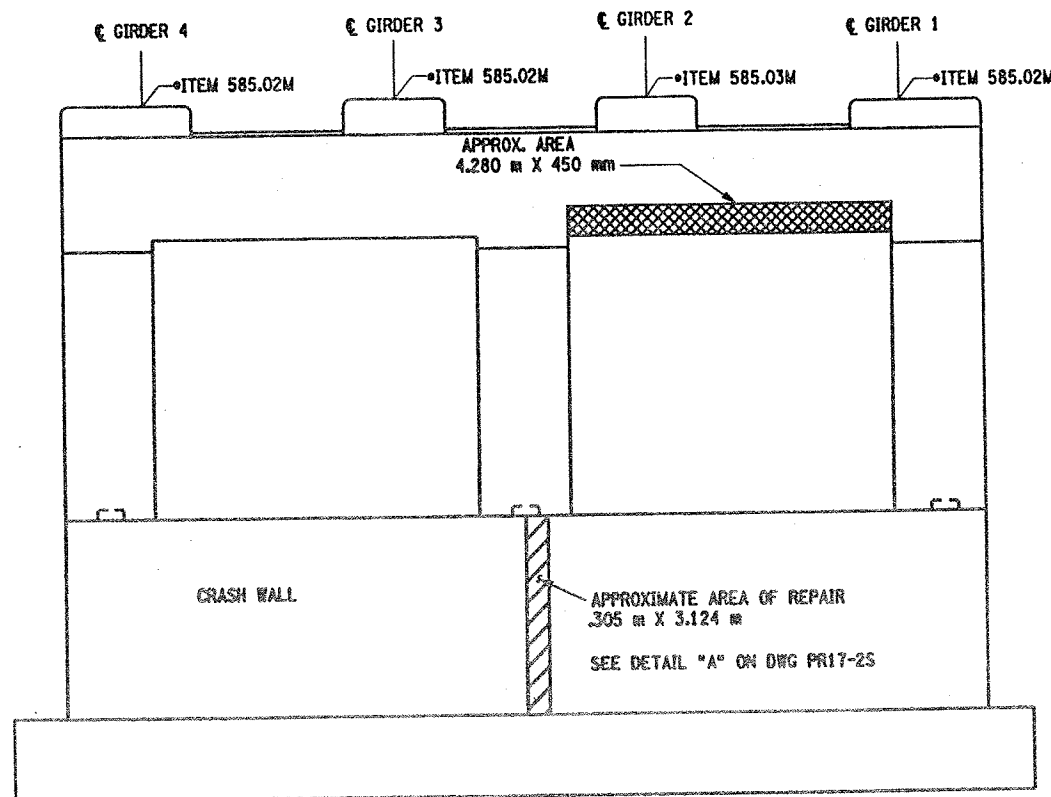
1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS), SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-2S FOR SECTION A-A AND DETAIL "A".
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-1S
11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BE FOR VARIOUS OTHER ITEMS OF CONTRACT.



PIER 2 - FRONT FACE (LOOKING NORTH)

BIN 1093571

SCALE: 1 TO 50



PIER 2- BACK FACE (LOOKING SOUTH)

BIN 1093571

SCALE: 1 TO 50

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (C10)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (S10)

LIST OF ITEMS USED

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MATL (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 2

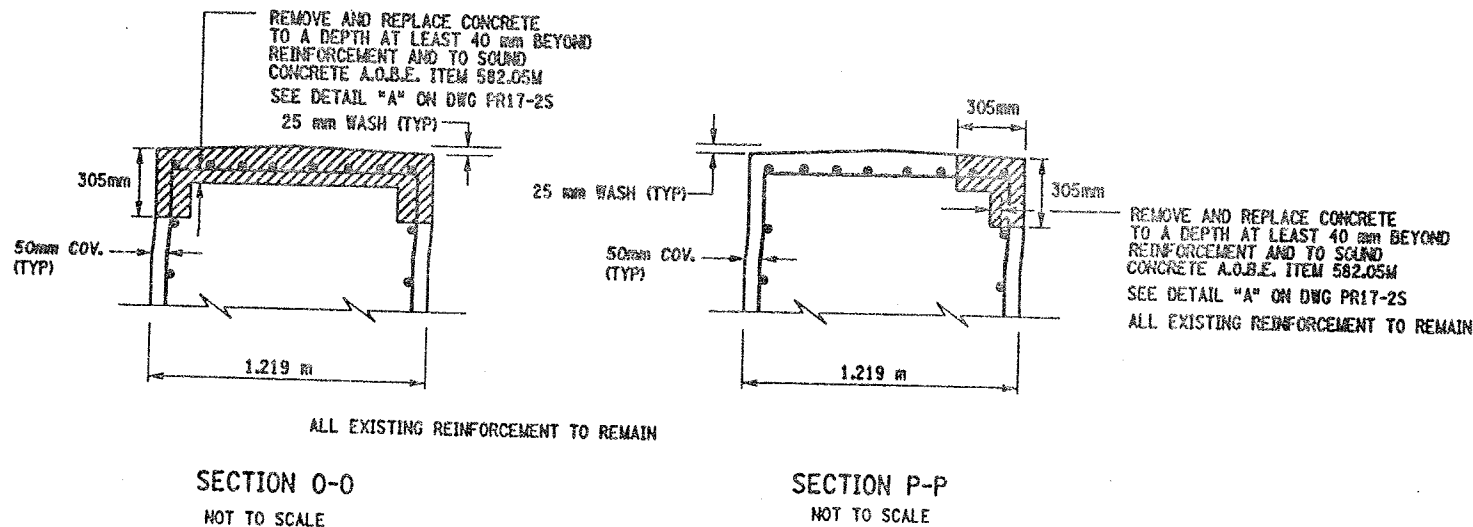
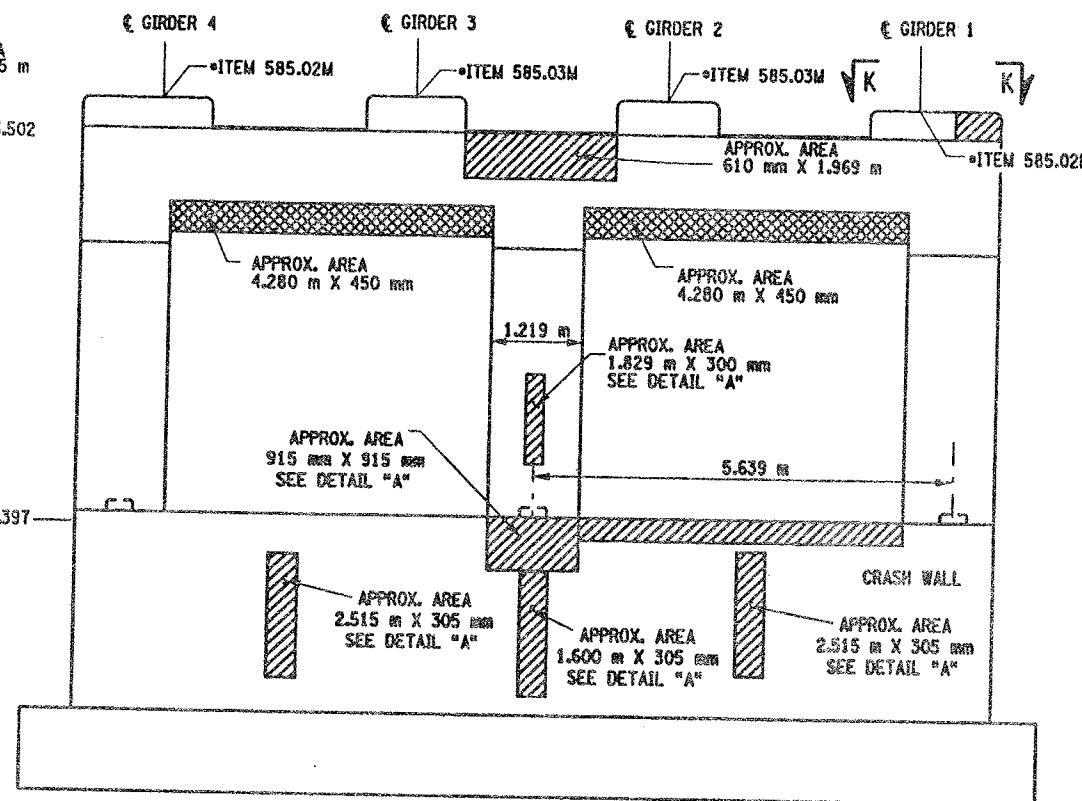
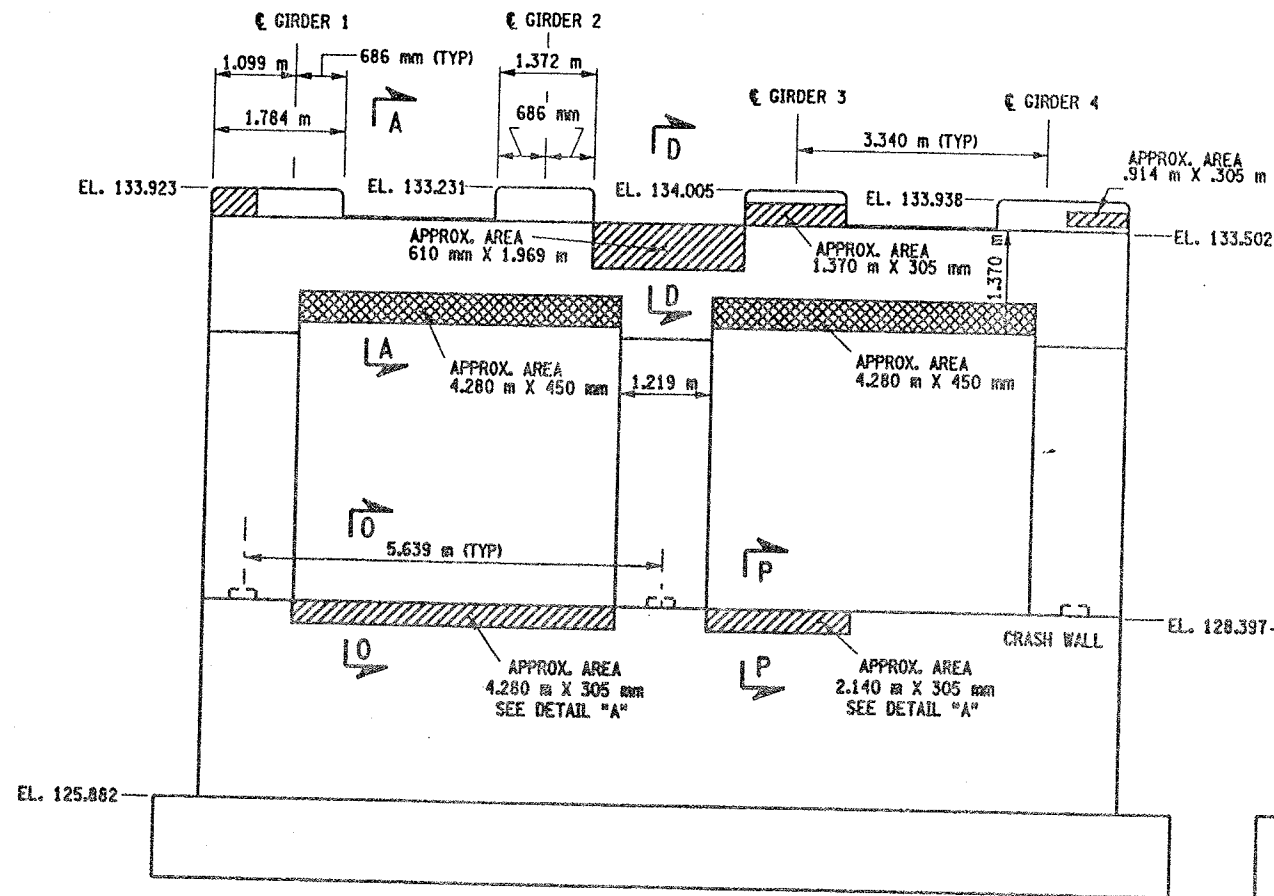


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME: 305613AE.P2A REGION: 3 DATE: 10/02 DRAWING NO.: PR17-3S



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	300	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571		

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.L.S.H. TO-T AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
- SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A".
- SEE DWG. PR17-2N FOR SECTION K-K.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
- FOR JACKING NOTES SEE DWG. PR17-1S.
- CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDISTALS AND TOP OF CAPBEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

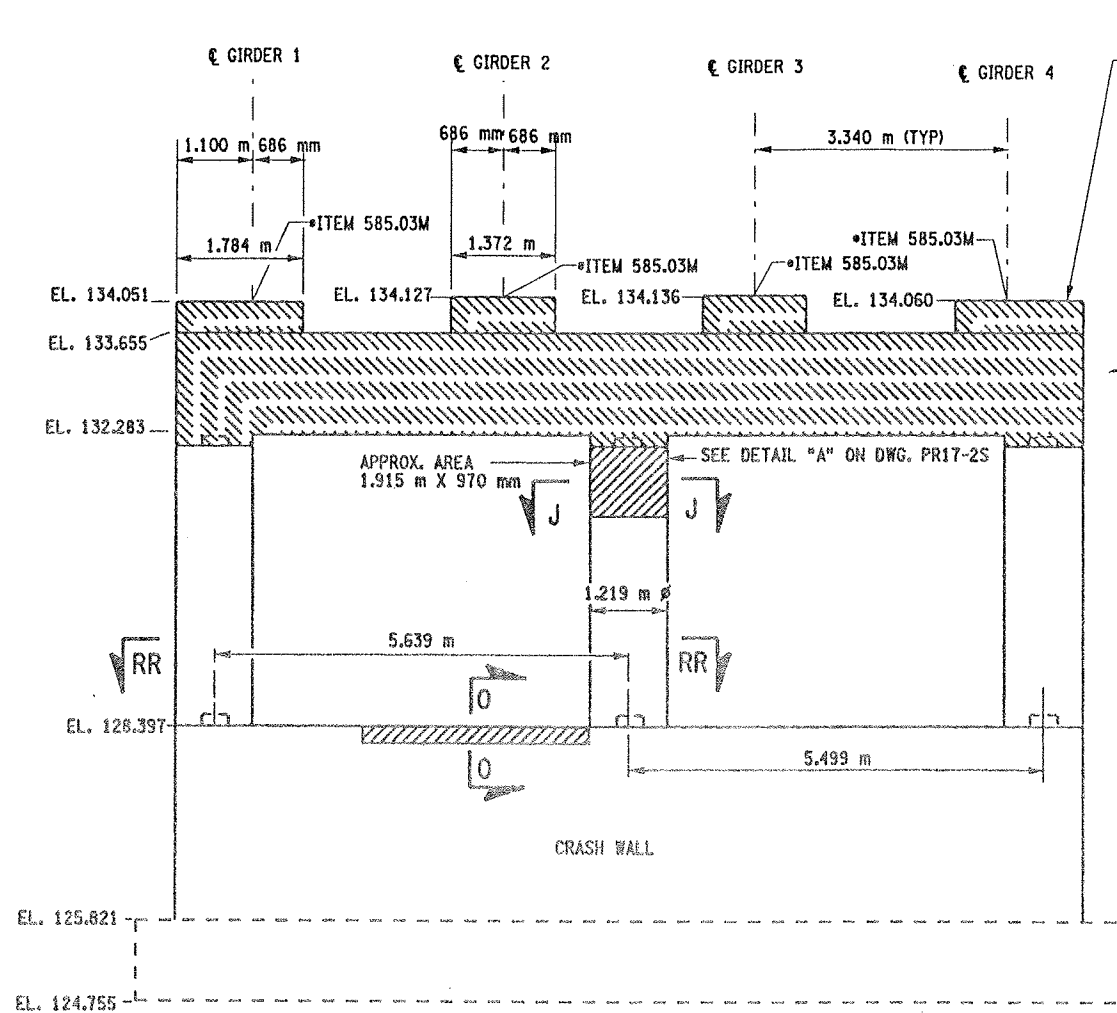
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

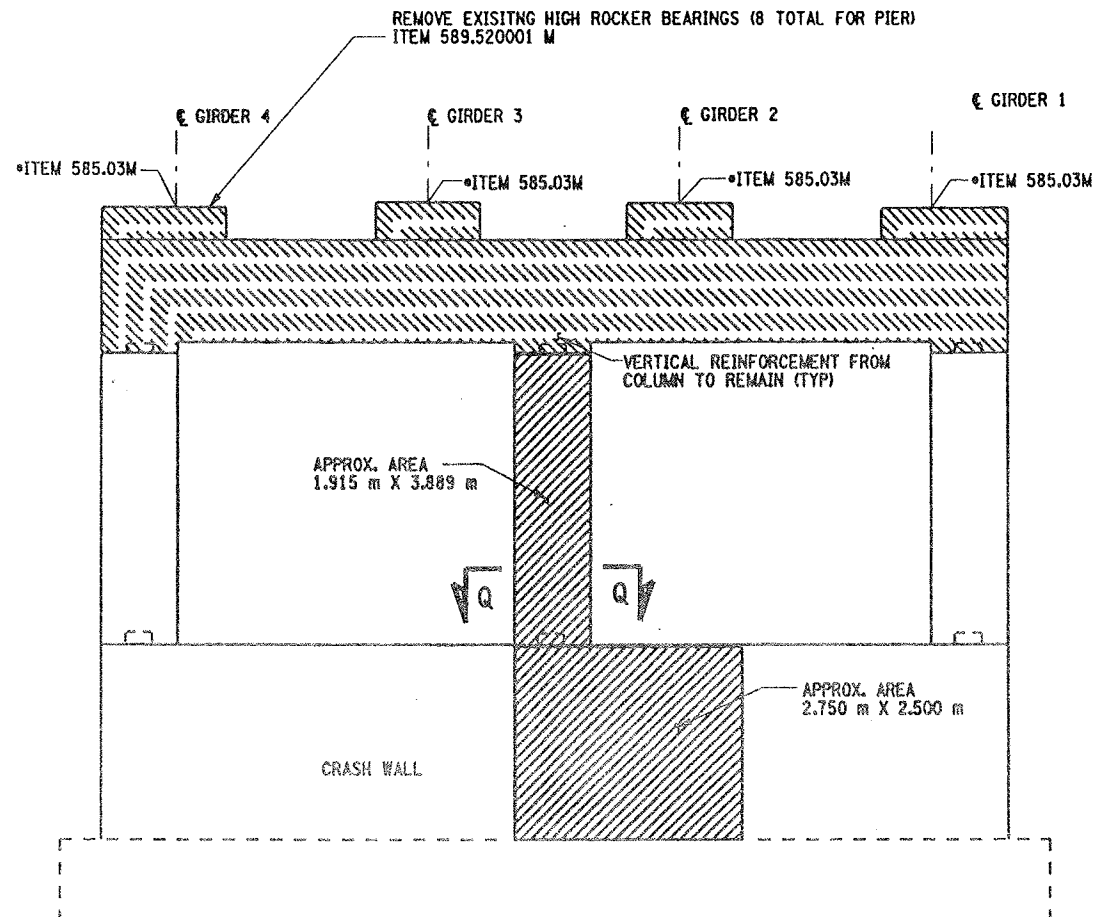
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INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 3	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P3A	REGION 3
DATE 10/02	DRAWING NO. PR17-45

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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

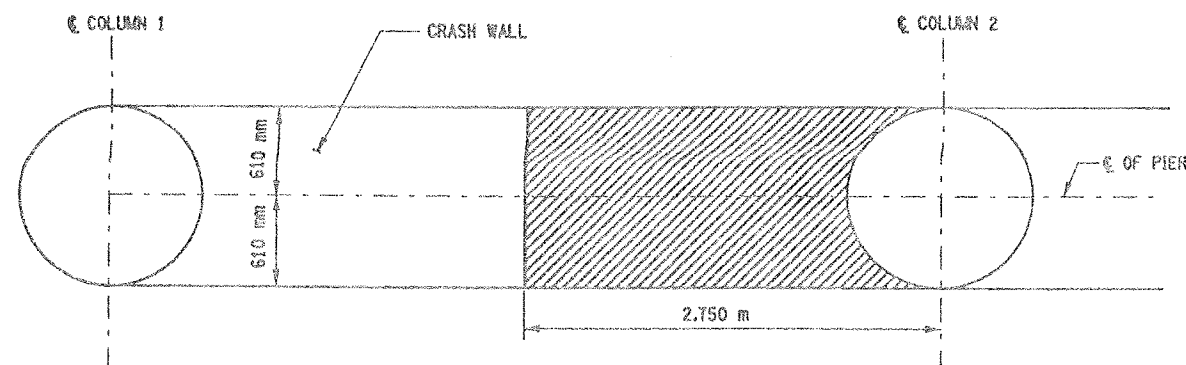
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	301	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	



PIER 4 - FRONT FACE (LOOKING NORTH)  
BIN 1093571 REMOVAL  
SCALE: 1 TO 50



PIER 4 - BACKFACE (LOOKING SOUTH)  
BIN 1093571 REMOVAL  
SCALE: 1 TO 50



SECTION RR-RR  
SCALE: 1/25

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

LIST OF ITEMS USED:

ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)  
ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EA)

NOTES:

1. ALL REINFORCEMENT TO REMAIN, EXCEPT PEDESTAL REINFORCEMENT AND CAPBEAM REINFORCEMENT. THE VERTICAL REINFORCEMENT IN THE CAPBEAMS ORIGINATING FROM THE COLUMNS SHALL REMAIN.
2. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
3. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
4. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
5. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
6. SEE DWG. PR17-4N FOR SECTION Q-Q.
7. SEE DWG. PR17-2N FOR SECTION J-J.
8. SEE DWG. PR17-4S FOR SECTION O-O.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-1S.
11. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
12. SEE BR-1 AND BR-2 FOR BEARING TABLE AND BEARING DETAILS.

LEGEND:

REPAIR:		ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
REPLACEMENT:		ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE - (CM) (COMPLETE REMOVAL)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 4 REMOVAL DETAILS		STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-SS

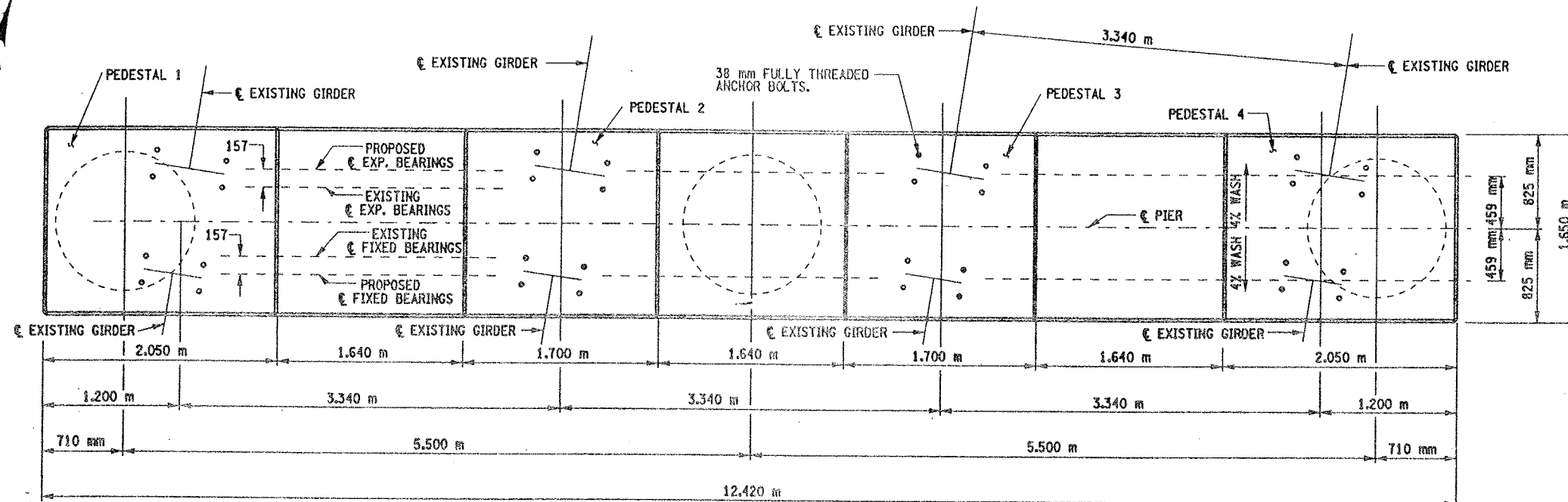


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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

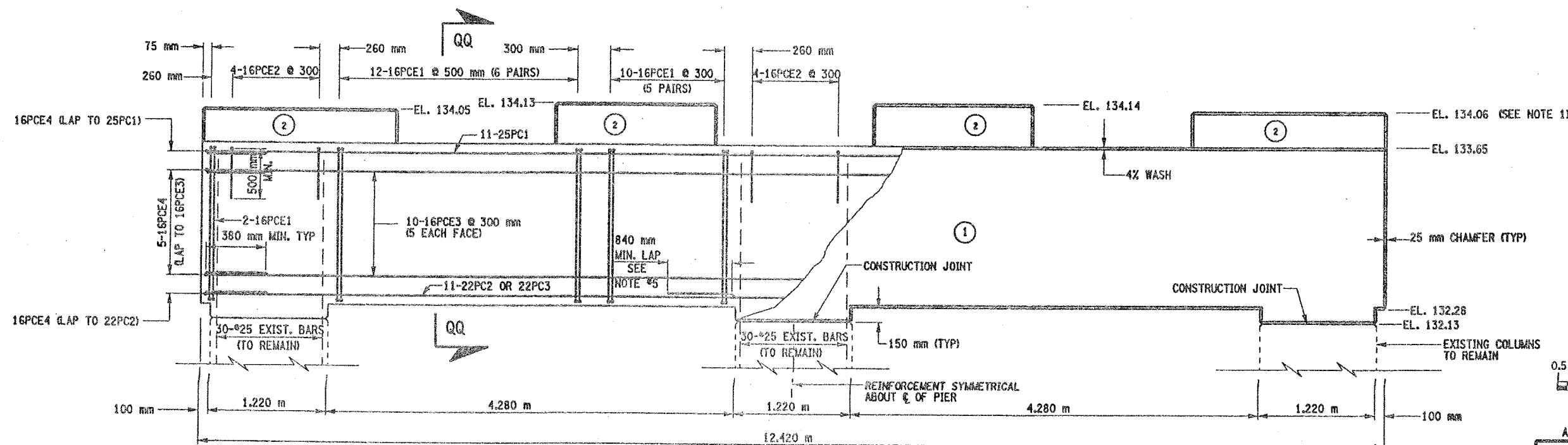
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	302	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

1. THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS OR DIMENSIONS.
2. SEE DWG PR17-TS FOR ANCHOR BOLT LAYOUT, PEDESTAL REINFORCEMENT DETAILS, SECTION QQ-QQ, AND CHAMFER DETAIL.
3. SEE DWG. NO. BL-6 FOR BAR LIST AND BAR BENDING DIAGRAMS.
4. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
5. REINF. BAR LAPS, IF REQUIRED SHALL BE STAGGERED SO NO MORE THAN 50% OF THE BARS ARE LAPPED AT ANY ONE LOCATION.



PROPOSED PLAN  
SCALE 1:25



(NO.) INDICATES CONCRETE PLACEMENT NUMBER

PROPOSED ELEVATION  
SCALE 1:25

CONCRETE TABLE (m <sup>3</sup> )		
PLACEMENT	QUANTITY	ITEM NO.
1	5.46	555.09M
2	28.60	555.09M

LIST OF ITEMS USED:

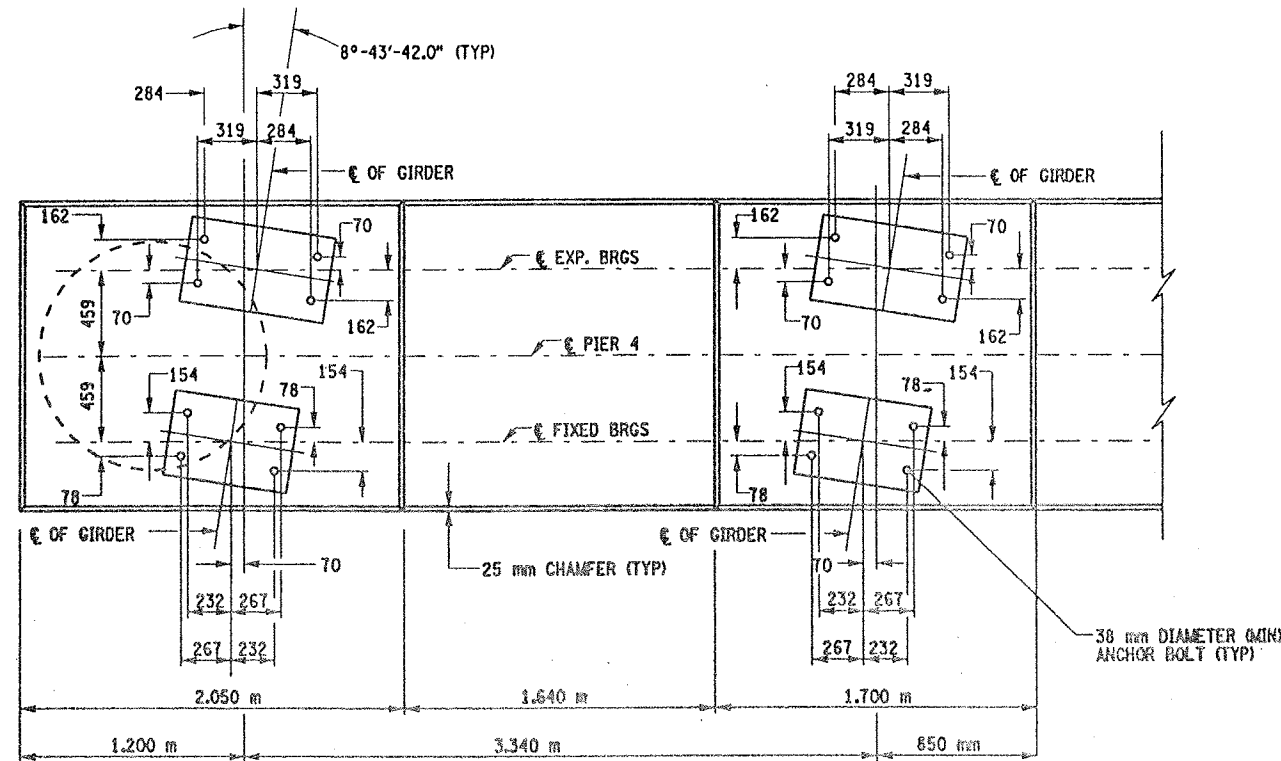
ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)  
ITEM 556.0201M - UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)  
ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)



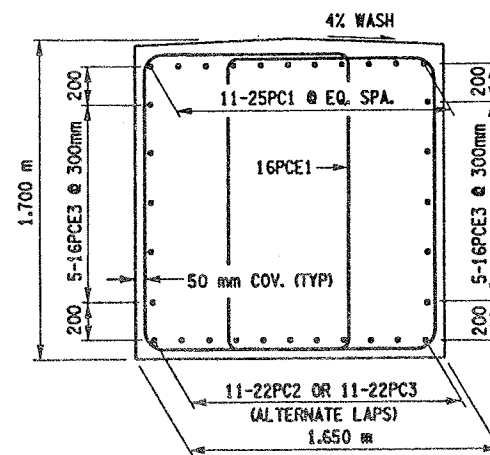
AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 4			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-6S

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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	303	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
COUNTY OF ONONDAGA				
P.I.N. 305613			B.I.N. 1093571	



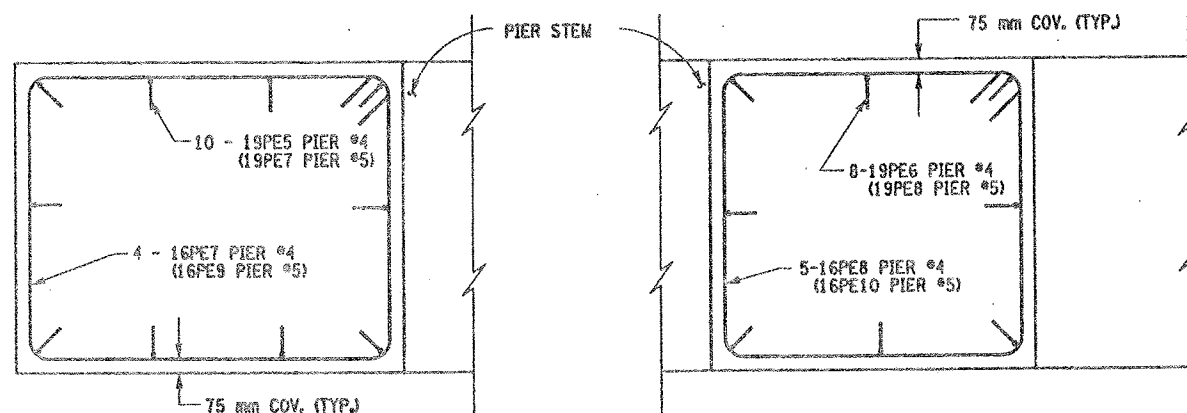
ANCHOR BOLT LAYOUT  
SCALE 1:20



SECTION QQ-QQ  
SCALE 1 TO 20

NOTES:

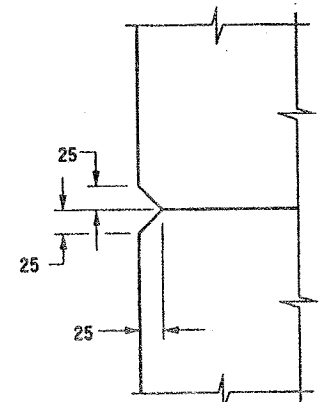
1. SEE DWG. NO. BL-6 FOR BAR LIST AND BAR BENDING DIAGRAM.
2. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
3. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
4. SAME BAR MARKS SHALL APPLY FOR BOTH PIERS.



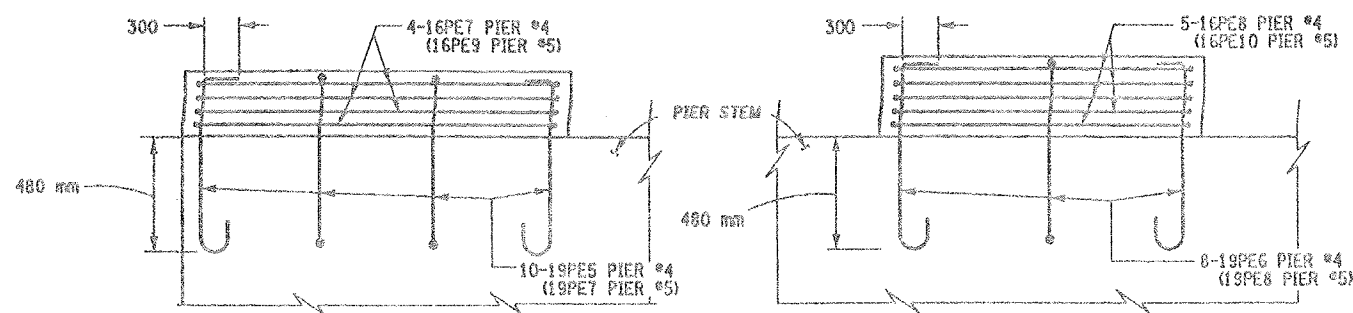
PEDESTALS 1 & 4

PEDESTALS 2 & 3

PEDESTAL REINFORCEMENT (PLAN)  
SCALE 1:20



CHAMFER DETAIL  
NOT TO SCALE



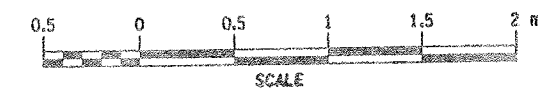
PEDESTALS 1  
(PEDESTAL 4 SIMILAR)

PEDESTALS 2 & 3

PEDESTAL REINFORCEMENT (ELEVATION)  
SCALE 1:20

LIST OF ITEMS USED:

- ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)
- ITEM 556.0201M - INCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)
- ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)
- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)



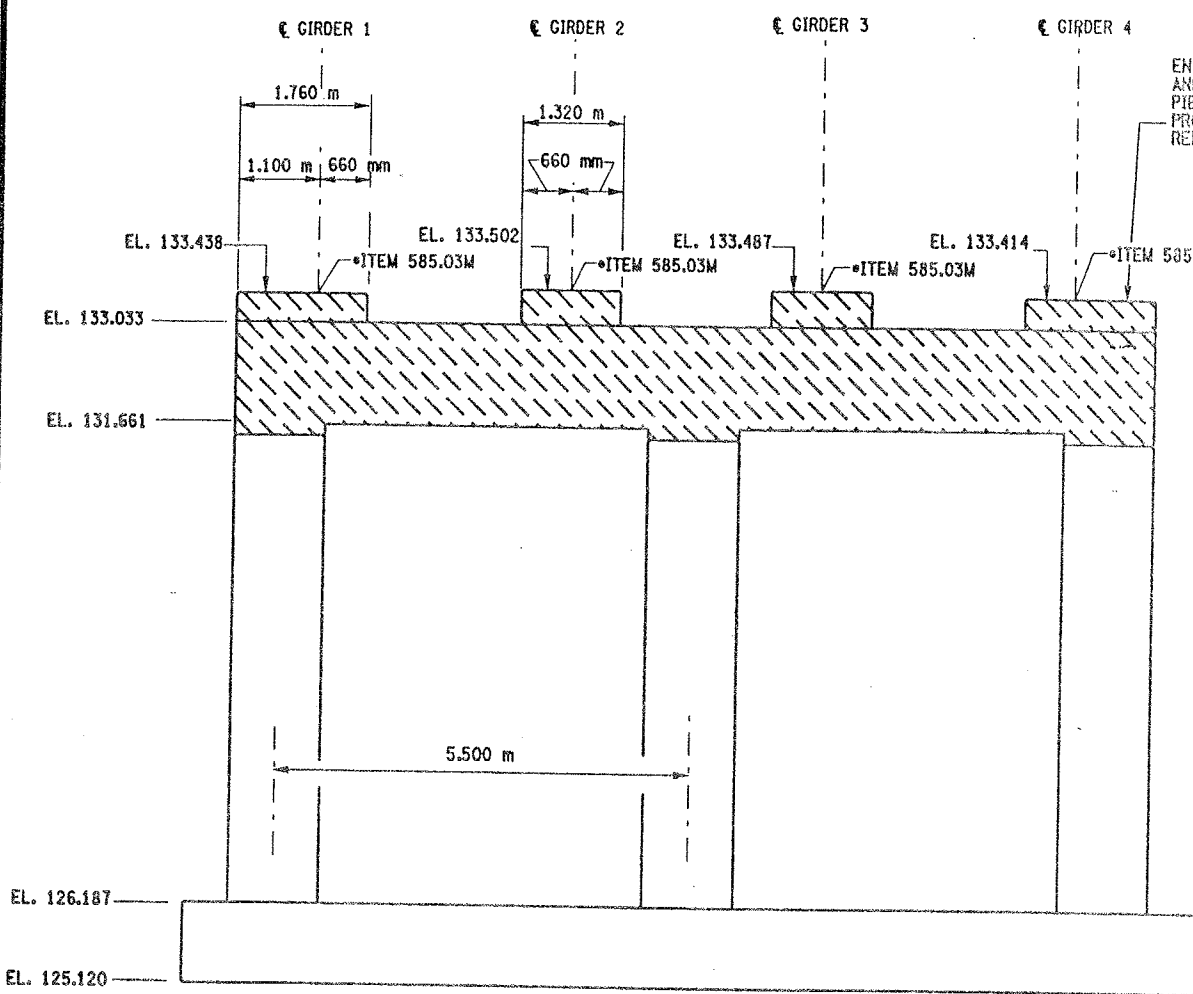
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIERS 4 & 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-TS

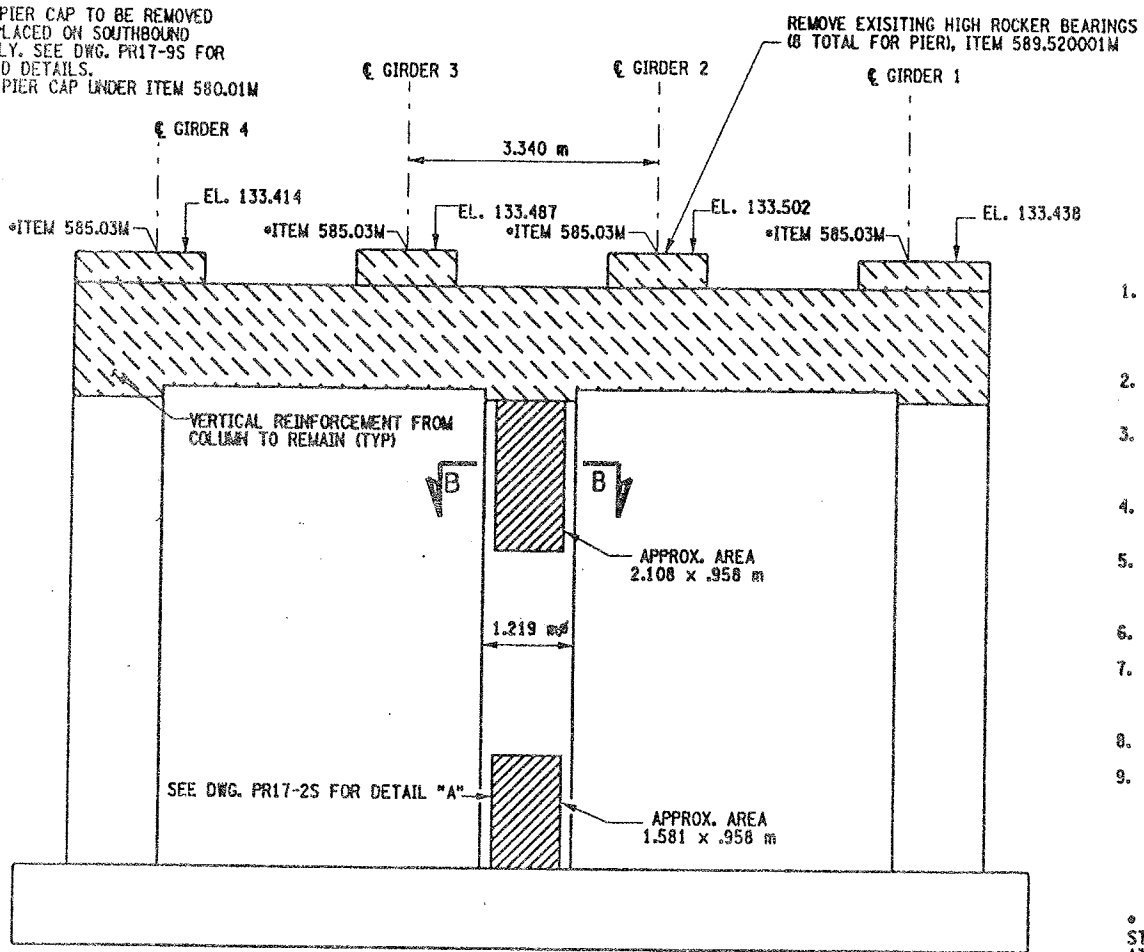


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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	304	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	



PIER 5 - FRONT FACE (LOOKING NORTH)  
BIN 1093571 (REMOVAL)  
SCALE: 1 TO 50



PIER 5 - BACK FACE (LOOKING SOUTH)  
BIN 1093571 (REMOVAL)  
SCALE: 1 TO 50

- NOTES:
1. ALL REINFORCEMENT TO REMAIN, (EXCEPT PEDESTAL REINFORCEMENT AND CAPBEAM REINFORCEMENT). THE VERTICAL REINFORCEMENT IN THE CAPBEAMS-ORIGINATING FROM THE COLUMNS SHALL REMAIN.
  2. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  3. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  4. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  5. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  6. SEE DWG. PR17-2S FOR SECTION B-B AND DETAIL "A".
  7. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  8. FOR JACKING LOADS SEE DWG. PR17-1S
  9. SEE BR-1 AND BR-2 FOR BEARING TABLE AND BEARING DETAIL.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

LEGEND:

- REPAIR: ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- REPLACEMENT: ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE - (CM) (COMPLETE REMOVAL)

- LIST OF ITEMS USED:
- ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATION - TYPE C (EACH)
  - ITEM 589.520001M - REMOVAL OF EXISTING STEEL (EACH)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P5A	REGION 3	DATE 10/02	DRAWING NO. PR17-85

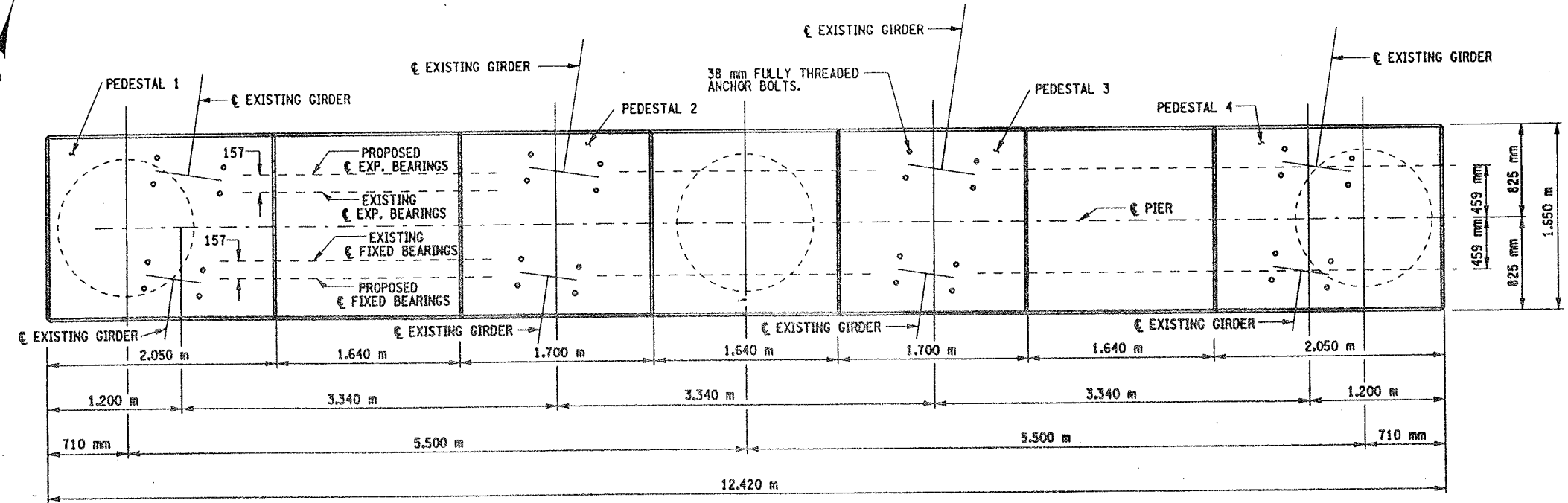
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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	305	432

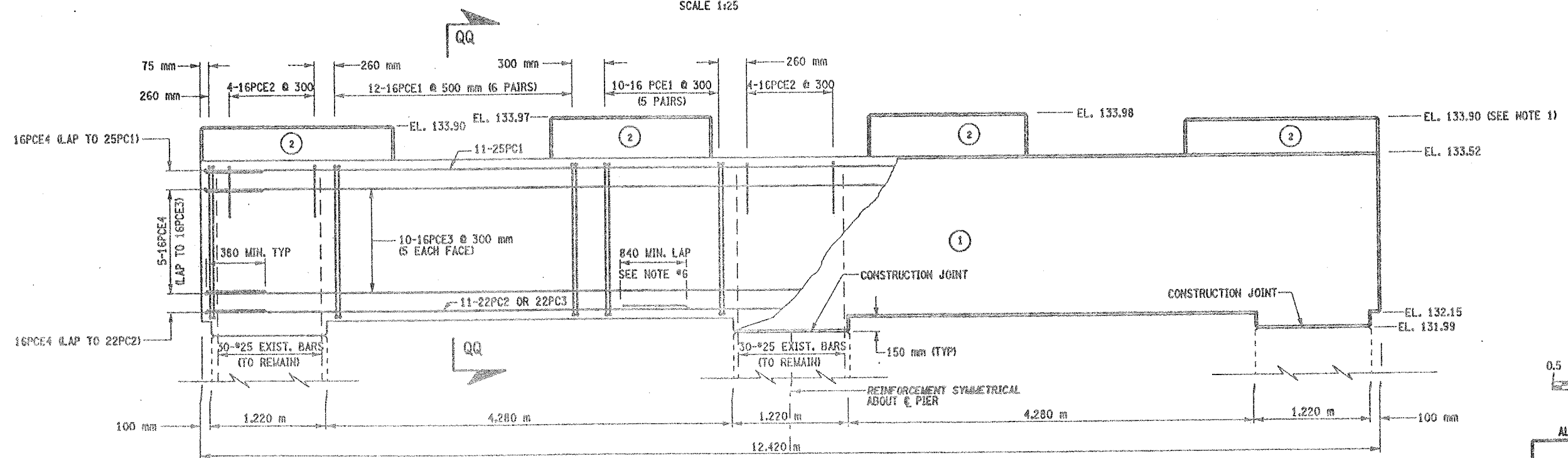
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
COUNTY OF ONONDAGA	
P.I.N. 305613	B.I.N. 1093571

NOTES:

1. THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS OR DIMENSIONS.
2. SEE DWG. NO. PR17-7S FOR ANCHOR BOLT LAYOUT, PEDESTAL REINFORCEMENT DETAIL AND SECTION Q-Q FOR CHAMFER DETAIL.
3. SEE DWG. NO. BL-6 FOR BARLIST AND BAR BENDING DIAGRAMS.
4. SEE BR-1 AND BR-2 FOR BEARING DETAILS.
5. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
6. REINFORCING BAR LAPS, IF REQUIRED, SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF THE BARS ARE LAPPED AT ANY ONE LOCATION.



PROPOSED PLAN  
SCALE 1:25

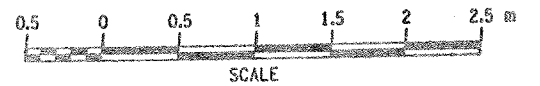


(NO.) INDICATES CONCRETE PLACEMENT NUMBER

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	5.12	555.09M
2	28.60	555.09M

LIST OF ITEMS USED:

- ITEM 555.09M - CONCRETE FOR STRUCTURES, CLASS HP (CM)
- ITEM 555.0201M - UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUC. (KG)
- ITEM 555.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUC. (KG)



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

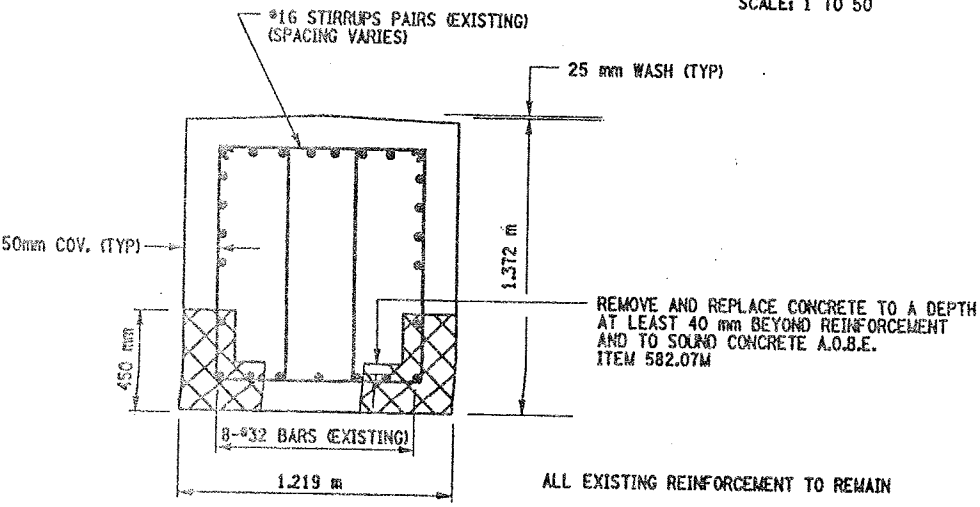
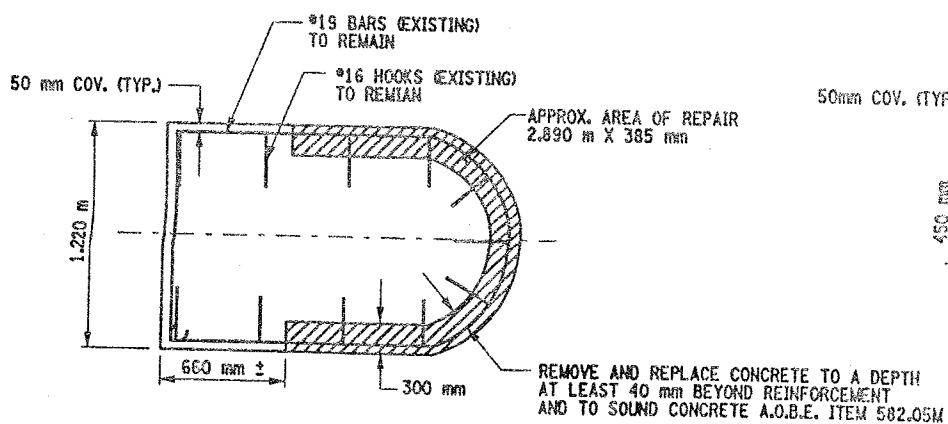
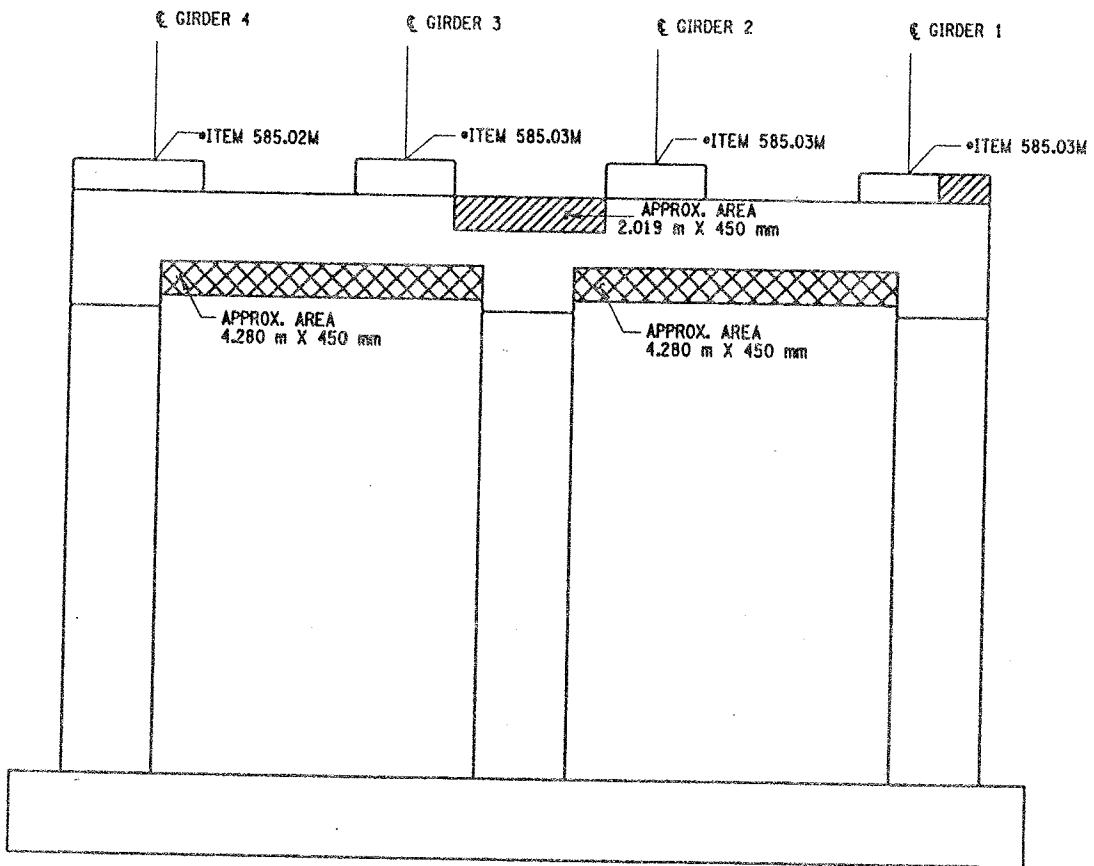
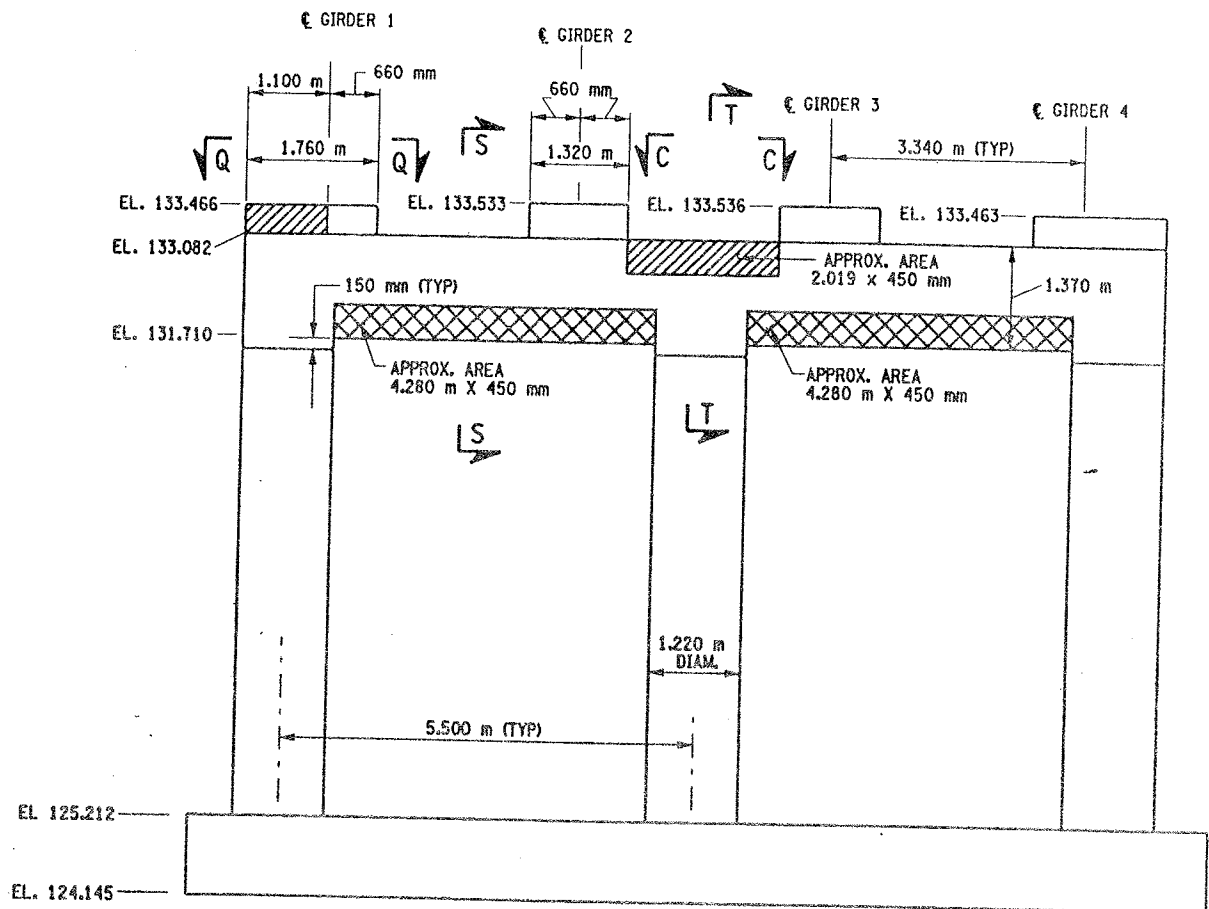
INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 5



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P5A	3	10/02	PR17-9S

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DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	306	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571		

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  - SEE DWG. PR17-1S FOR SECTION C-C.
  - SEE DWG. PR17-5N FOR SECTION T-T.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 6			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P6A	REGION 3	DATE 10/02	DRAWING NO. PR17-10S



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JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	307	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
9. FOR JACKING NOTES SEE DWG. PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

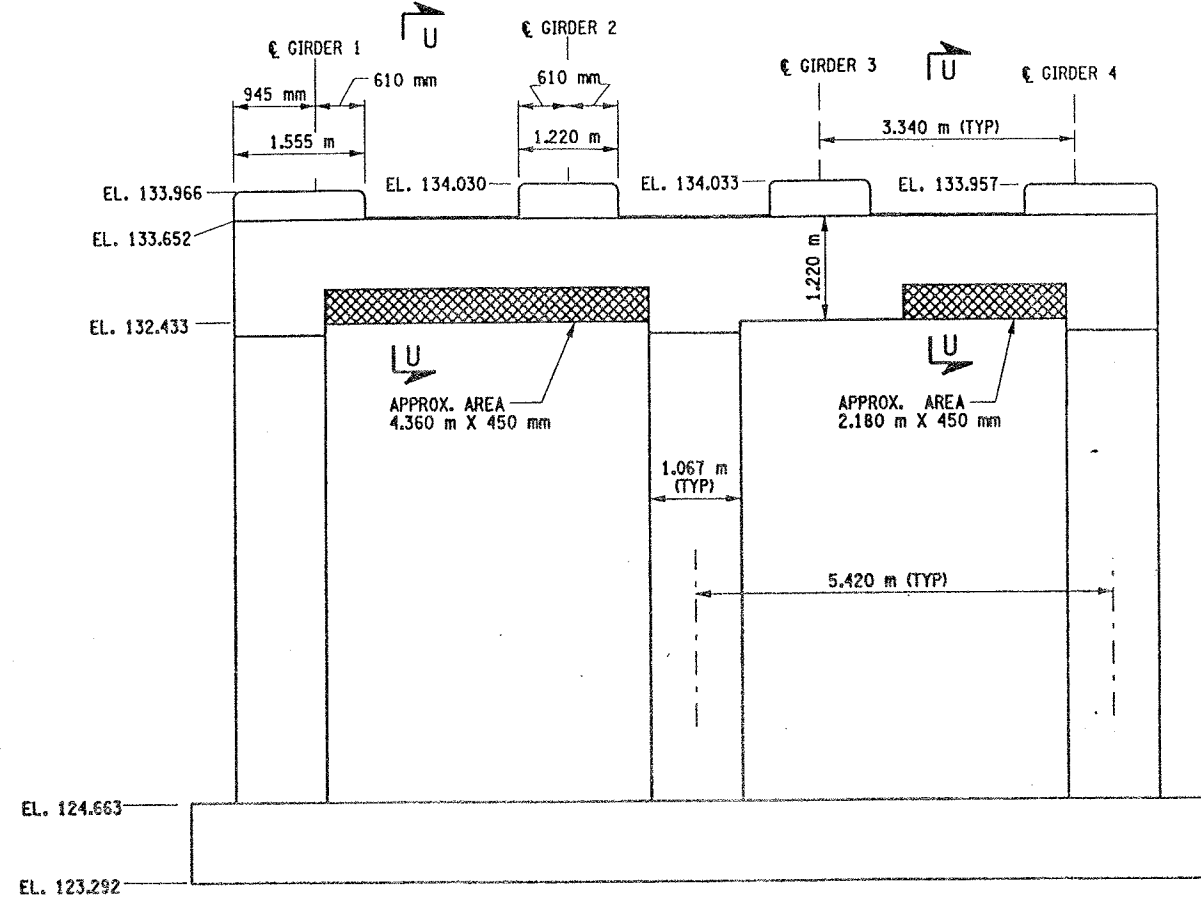
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

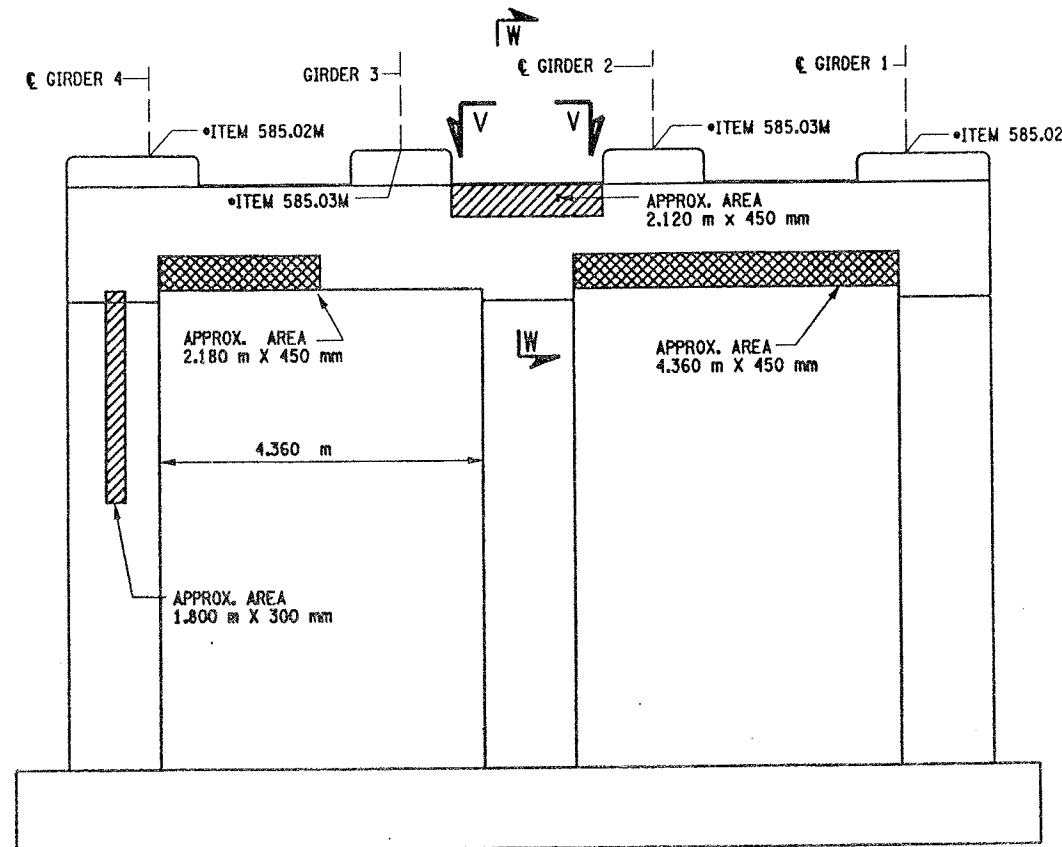
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

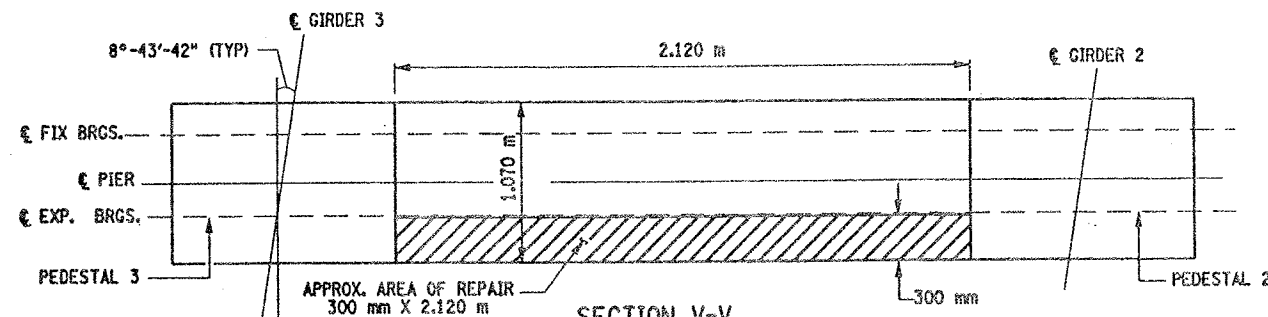
SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 7	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P7A	REGION 3
DATE 10/02	DRAWING NO. PR17-11S



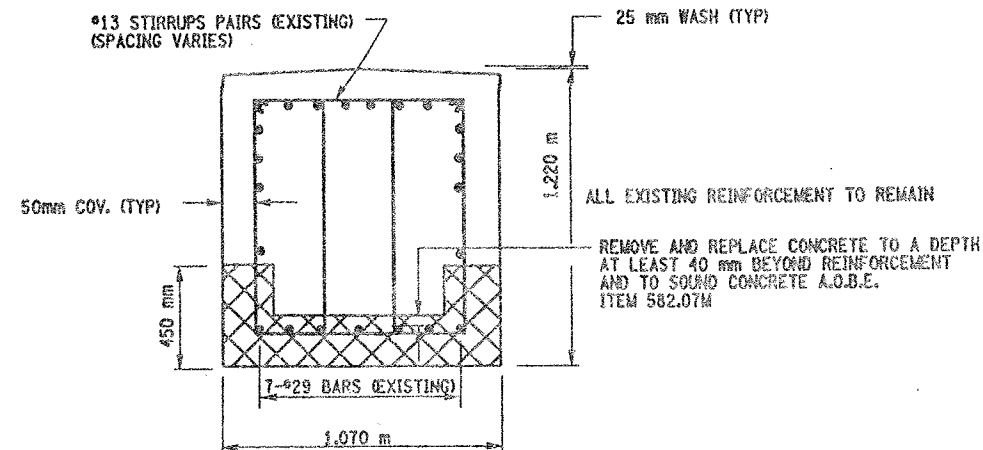
PIER 7 - FRONT FACE LOOKING NORTH  
BIN 1093571  
SCALE: 1 TO 50



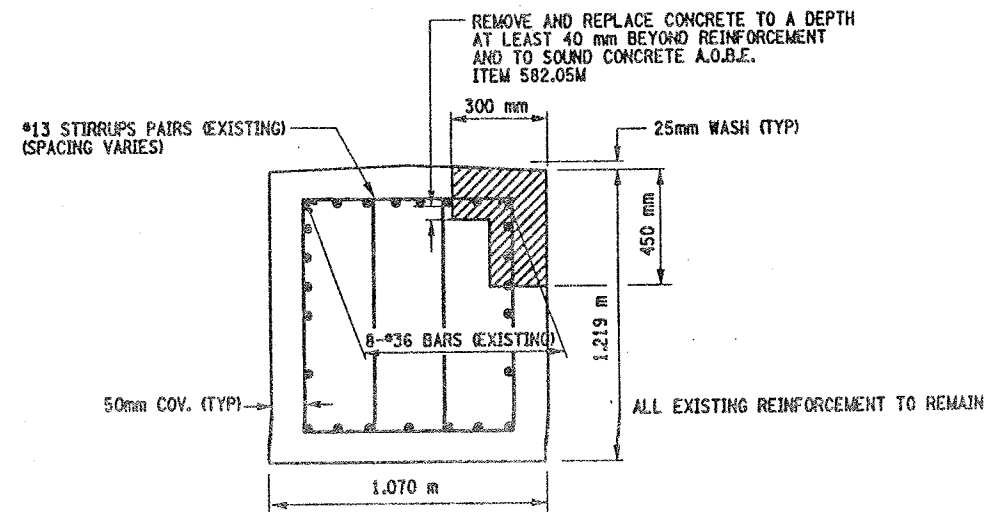
PIER 7 - BACK FACE LOOKING SOUTH  
BIN 1093571  
SCALE: 1 TO 50



SECTION V-V  
NOT TO SCALE



SECTION U-U  
NOT TO SCALE

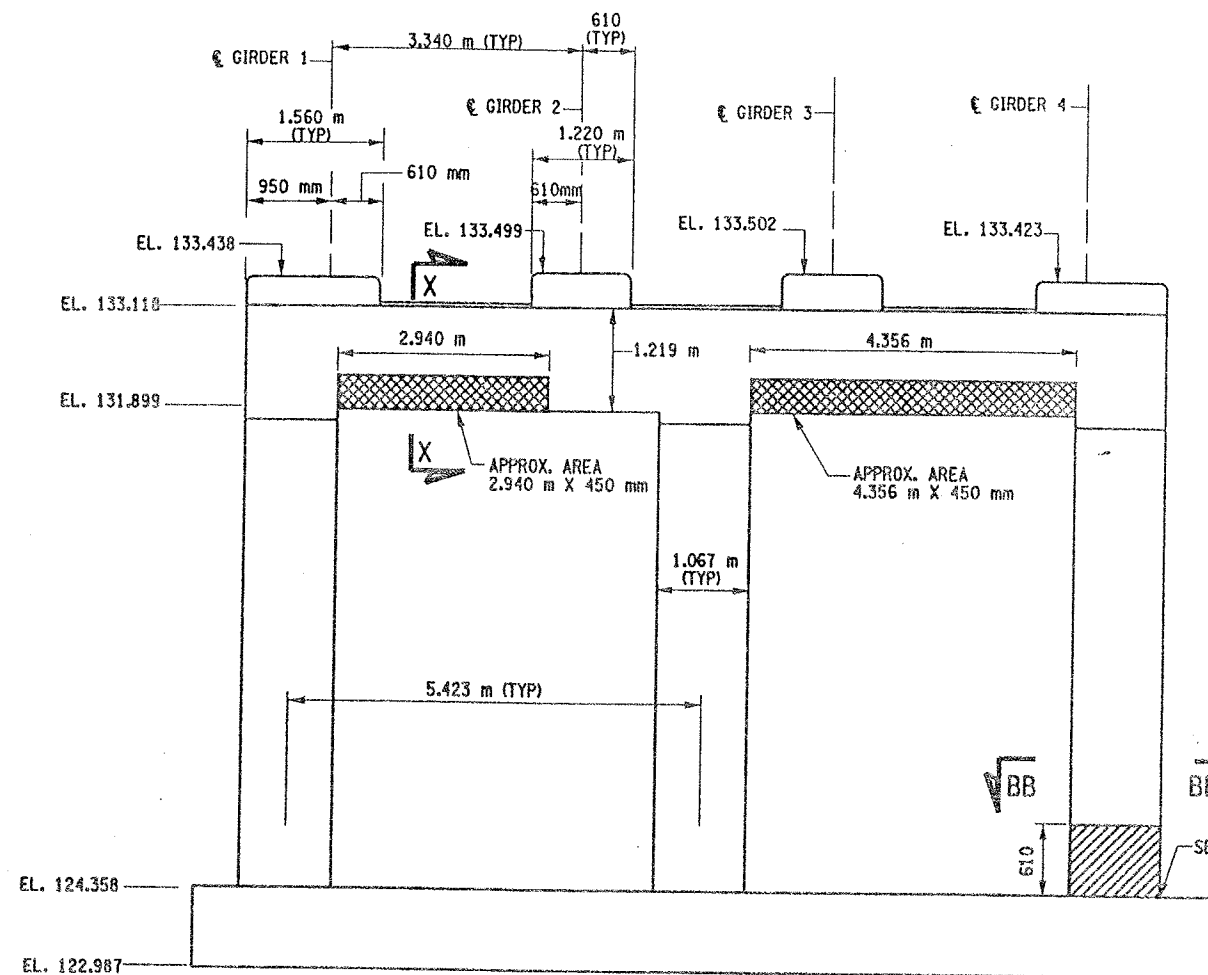


SECTION W-W  
NOT TO SCALE

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL)

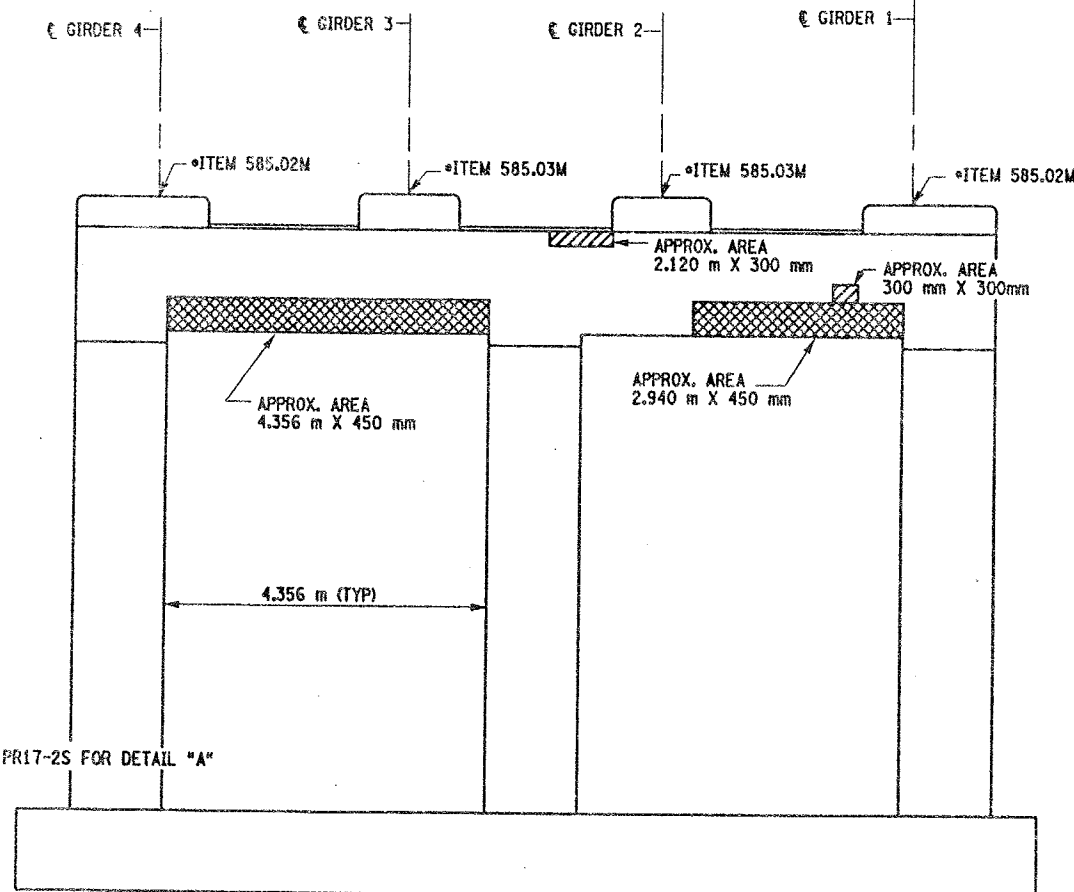
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PIER 8 - FRONT FACE (LOOKING NORTH)

BIN 1093571

SCALE: 1 TO 50

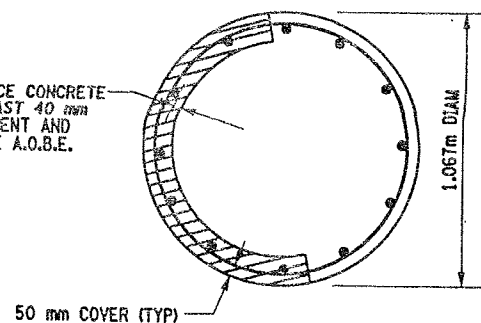


PIER 8 - BACK FACE (LOOKING SOUTH)

BIN 1093571

SCALE: 1 TO 50

REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M



SECTION BB-BB

NOT TO SCALE

THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.

LIST OF ITEMS USED:

ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	308	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. SEE DWG. PR17-7N FOR SECTIONS X-X.
8. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
9. FOR JACKING NOTES SEE DWG. PR17-1S
10. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF THE CONTRACT.

LEGEND:

ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)

ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD  
PIER 8

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613AE.P8A

REGION  
3

DATE  
10/02

DRAWING NO.  
PR17-12S

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	309	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571	

# NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
- SEE DWG. PR17-7N FOR SECTIONS AA-AA, Y-Y AND X-X.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-1S
- CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

## JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

## LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

## AS BUILT REVISIONS

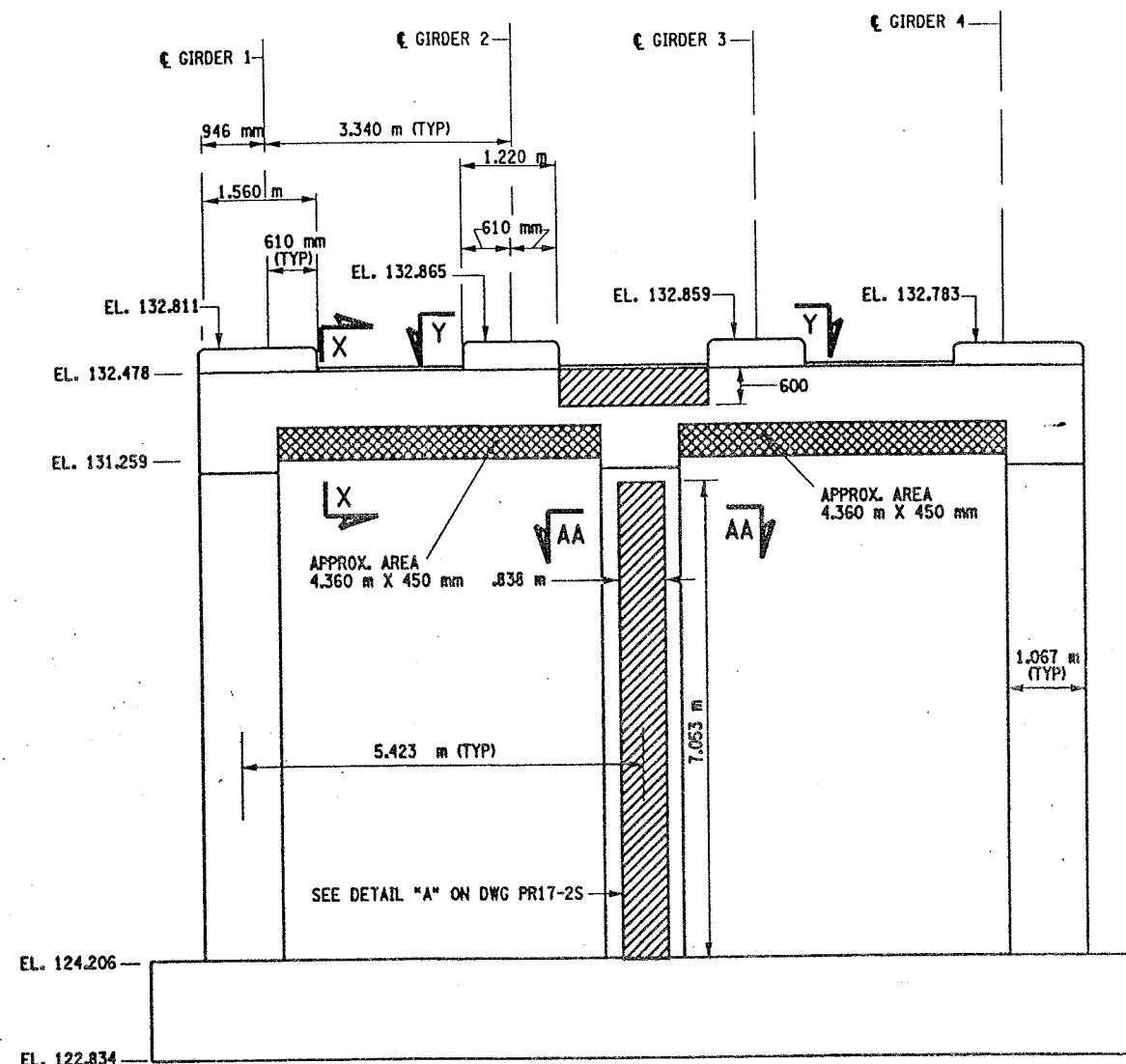
SIGNATURE DATE

INTERSTATE 481 SB  
OVER  
CSX RAILROAD YARD  
PIER 9

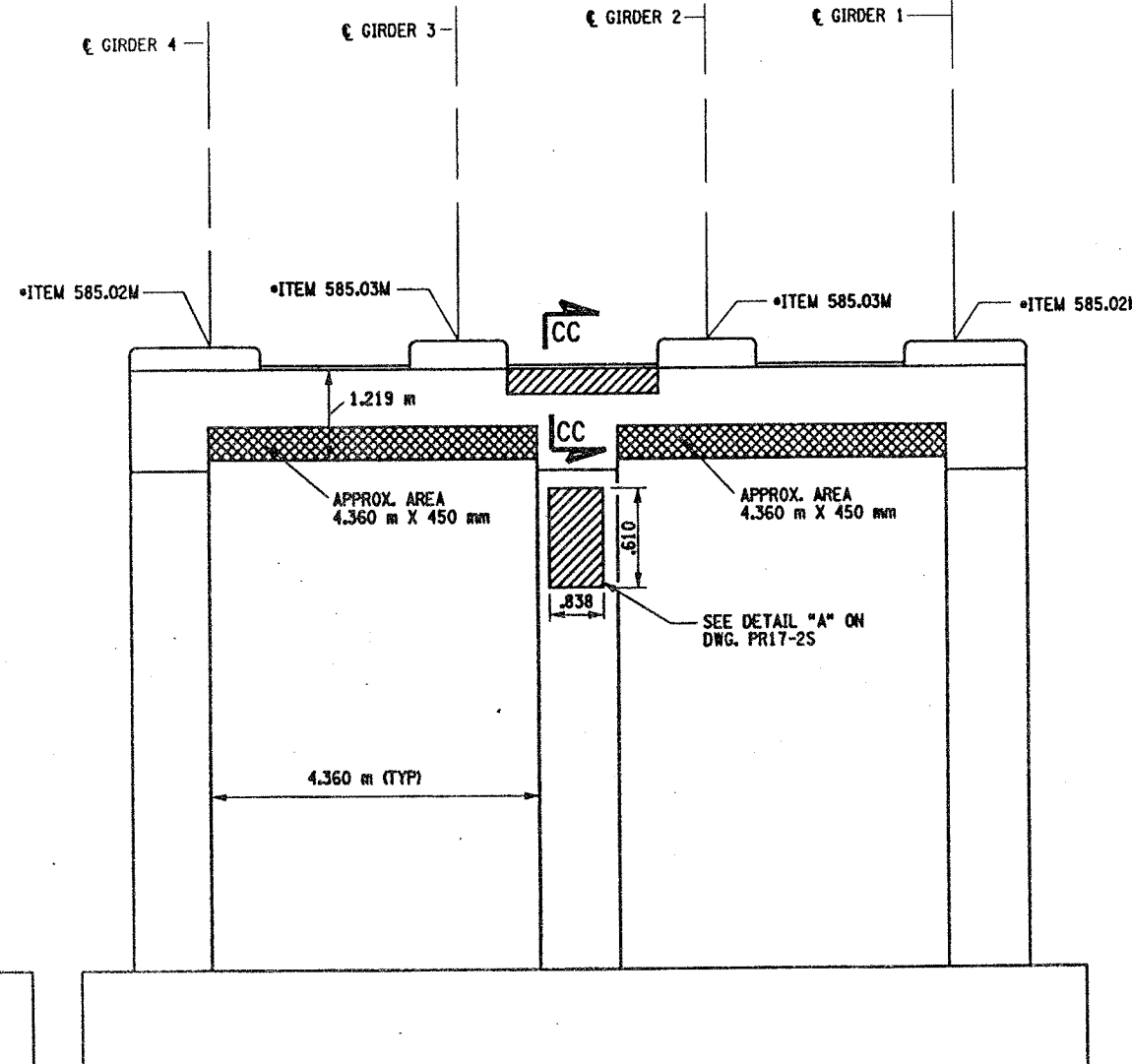


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

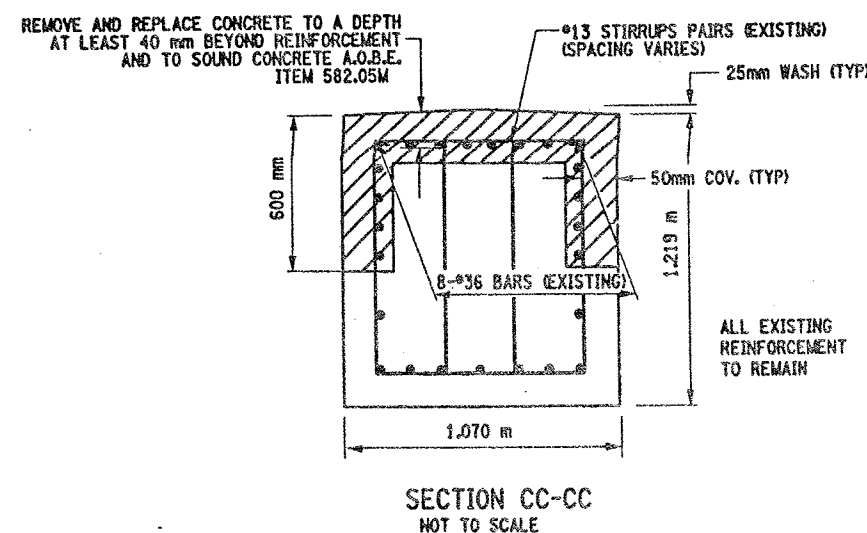
FILENAME	REGION	DATE	DRAWING NO.
305613AE.P9A	3	10/02	PR17-13S



PIER 9 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 9 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50

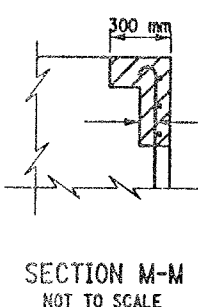
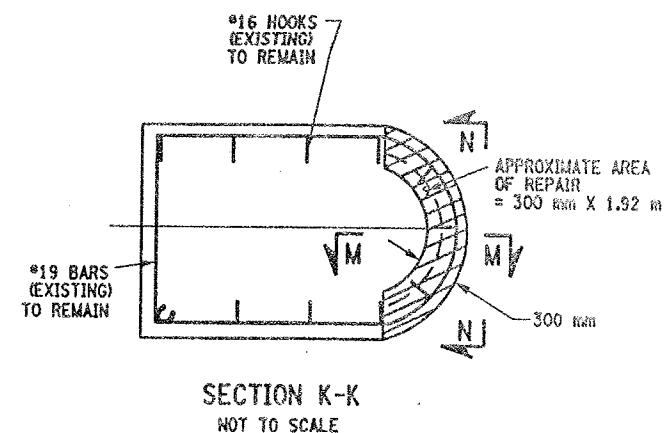
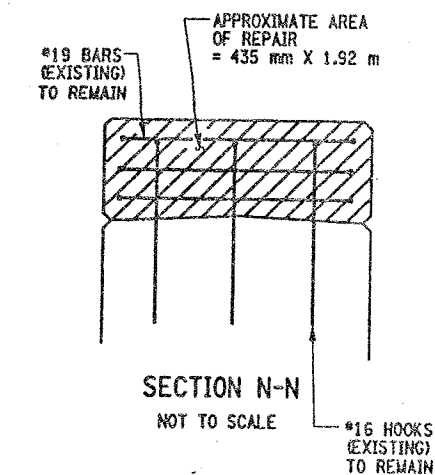
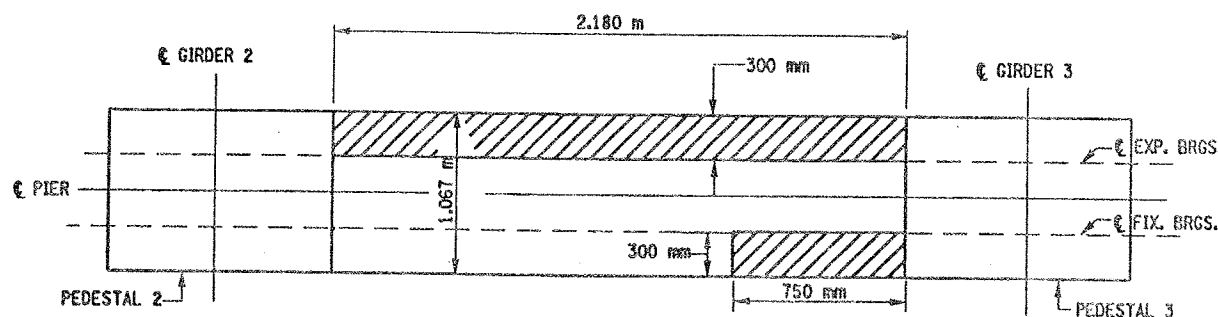
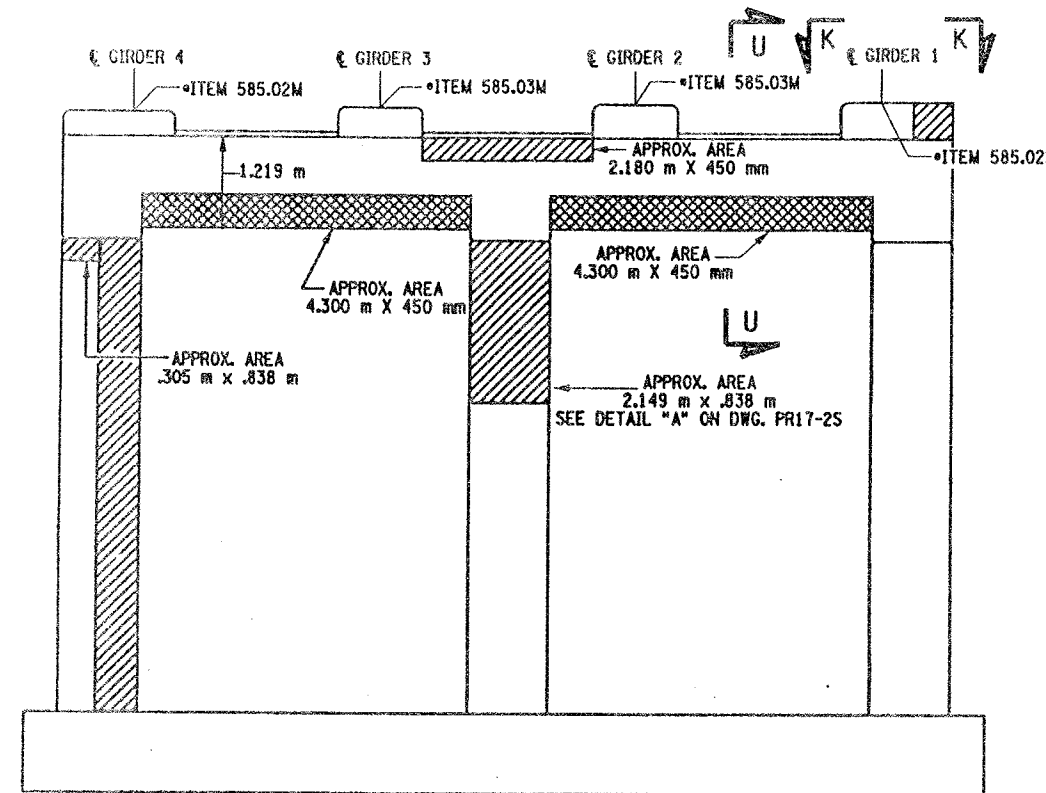
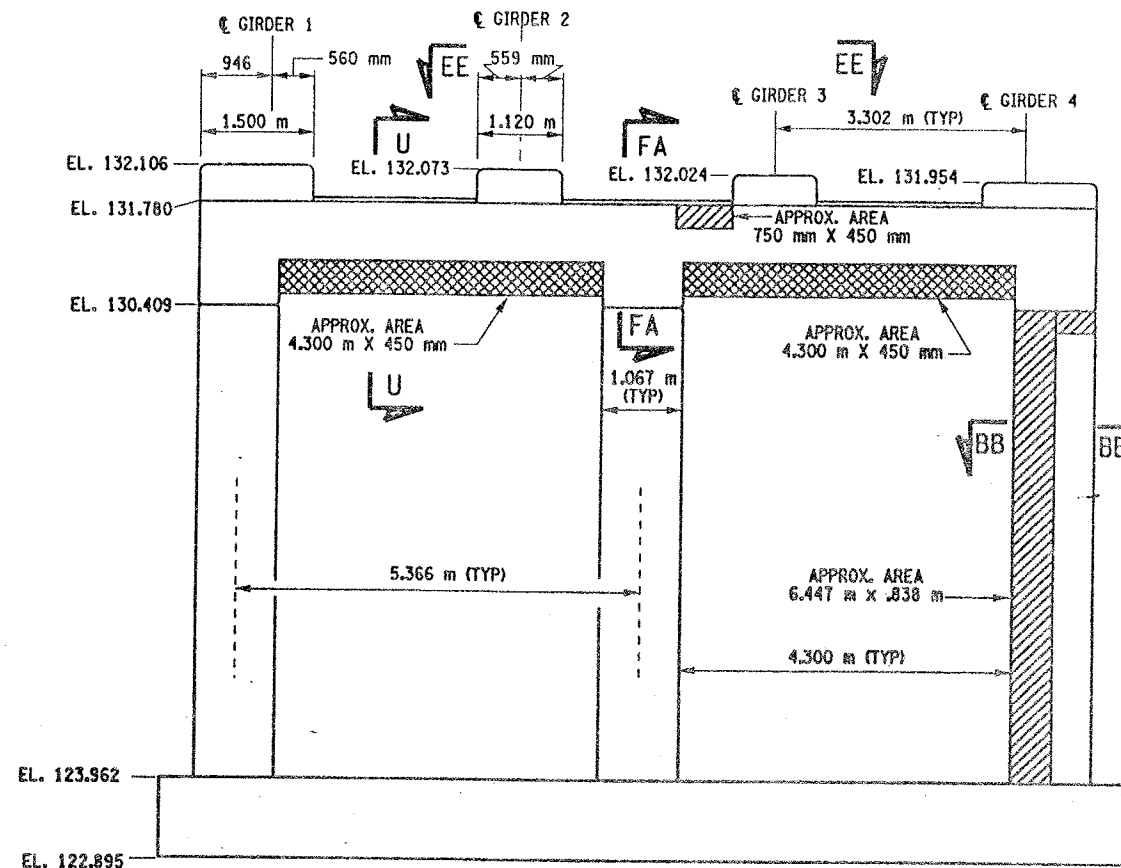


## LIST OF ITEMS USED:

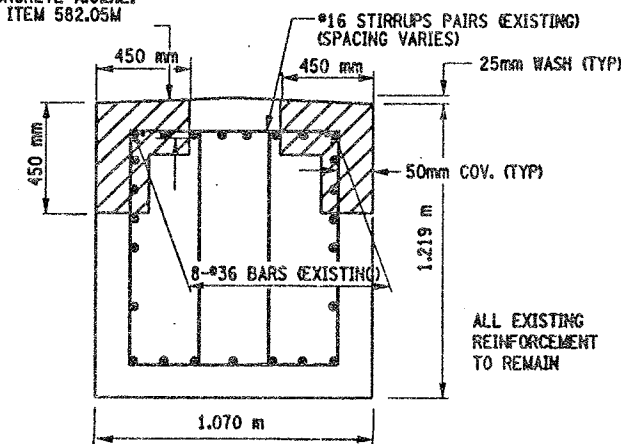
ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M



REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M

LIST OF ITEMS USED:

- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
- ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	310	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571		

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S.
  - SEE DWG. PR-17-11S FOR SECTION U-U.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME	REGION	DATE	DRAWING NO.
305613AE.P10	3	10/02	PR17-145

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	311	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.I.N. 305613	B.I.N. 1093571

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-11N FOR SECTION FF-FF.
  - SEE DWG. PR17-11S FOR SECTION W-W.
  - PEDESTAL 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S

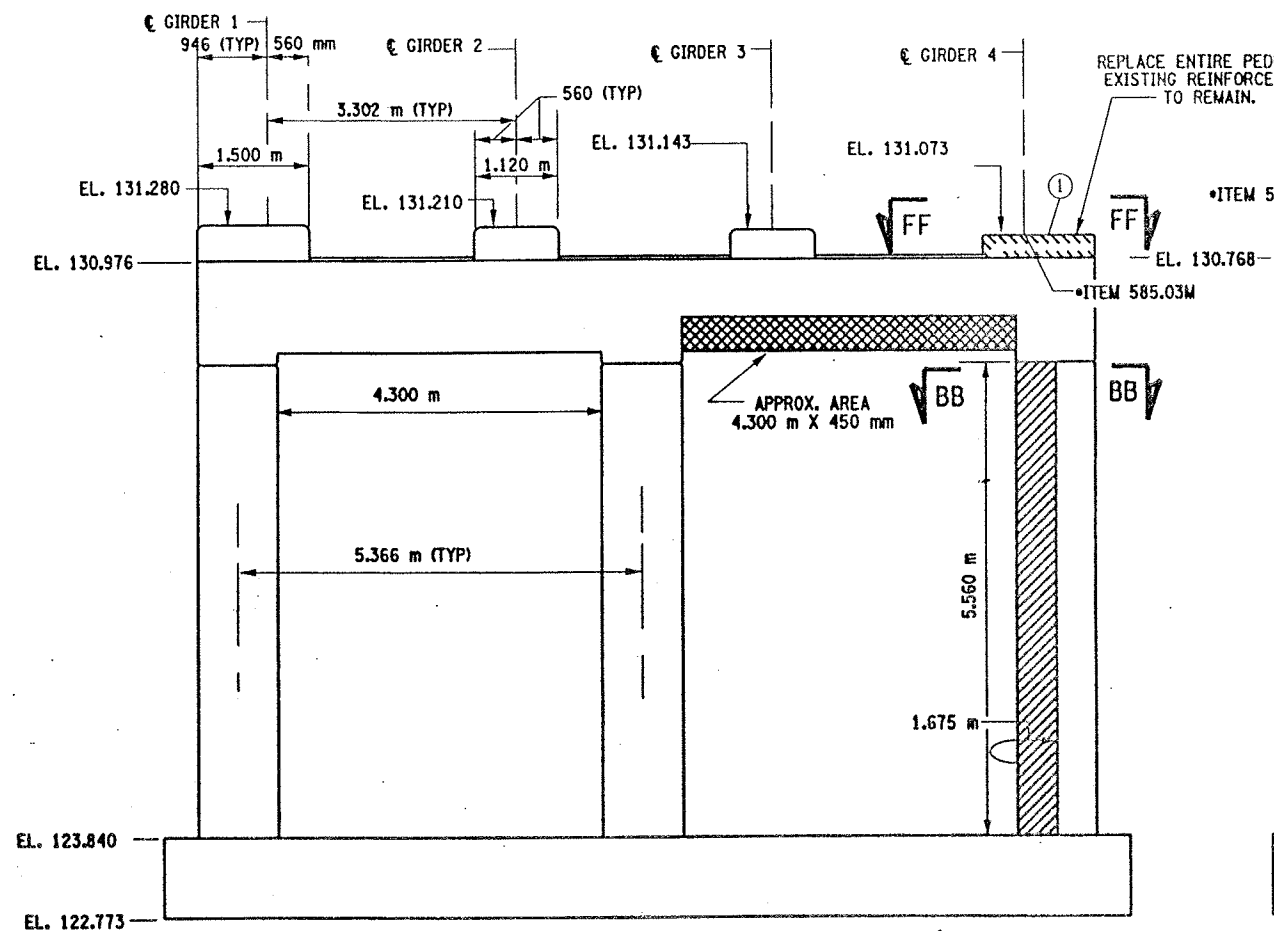
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

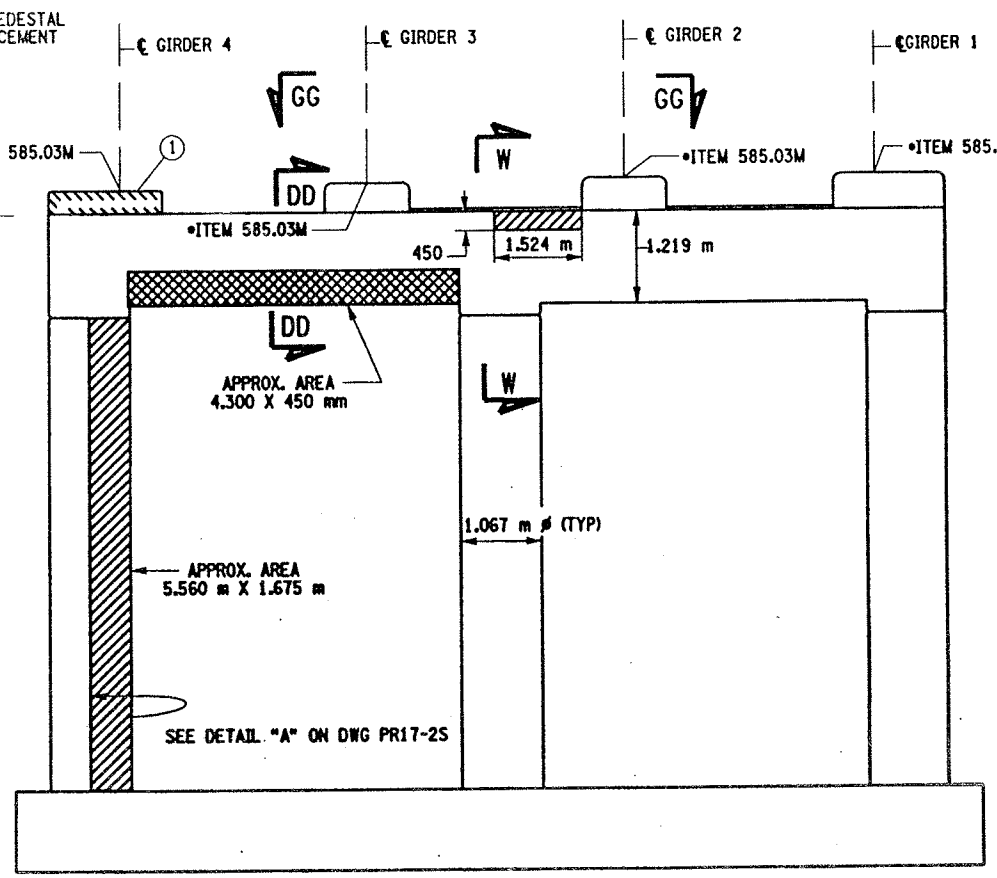
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
  - ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

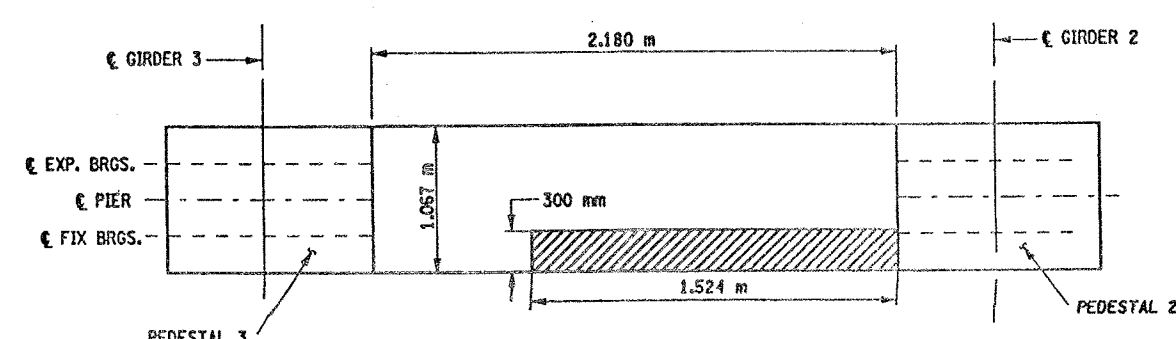
AS BUILT REVISIONS	
SIGNATURE	DATE
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 11	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P11	REGION 3
DATE 10/02	DRAWING NO. PR17-15S



PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 11 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



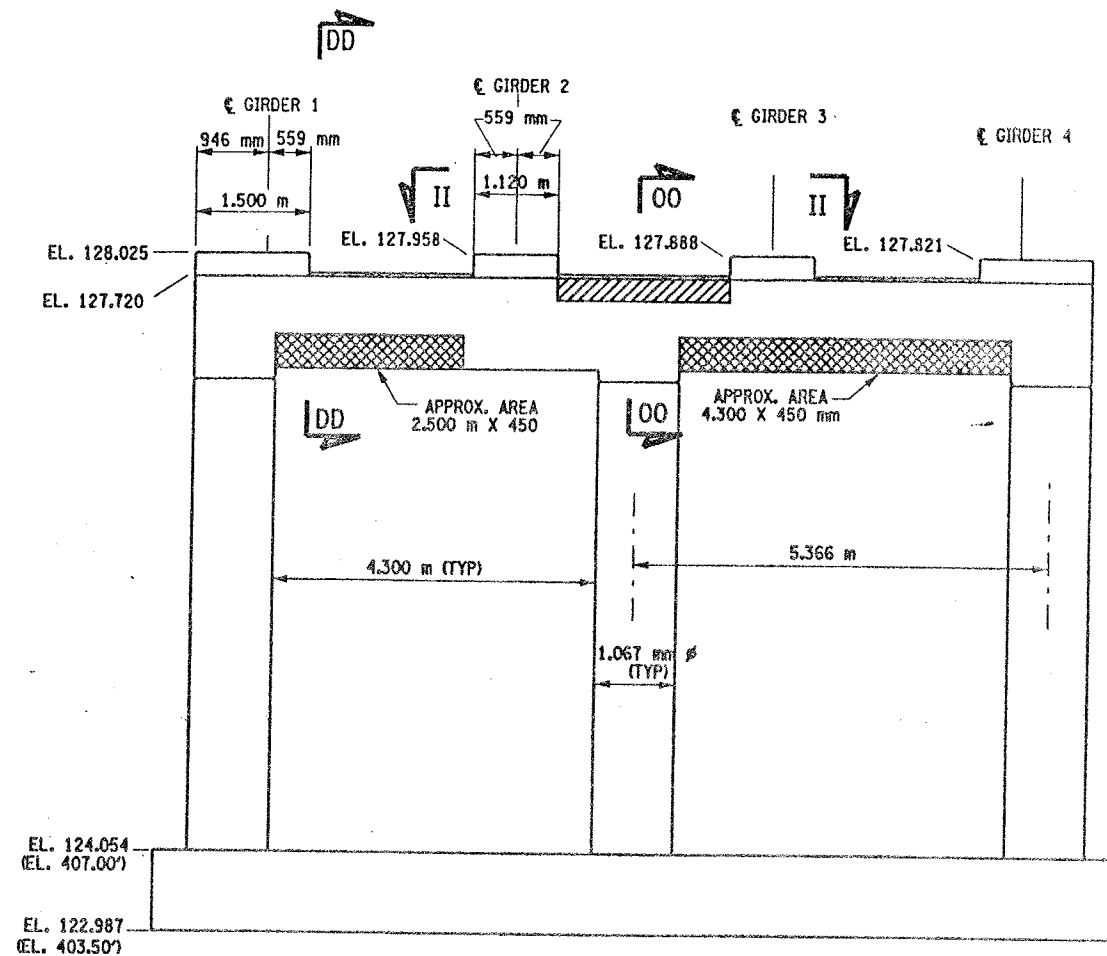
SECTION G-G  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.49	555.0105M

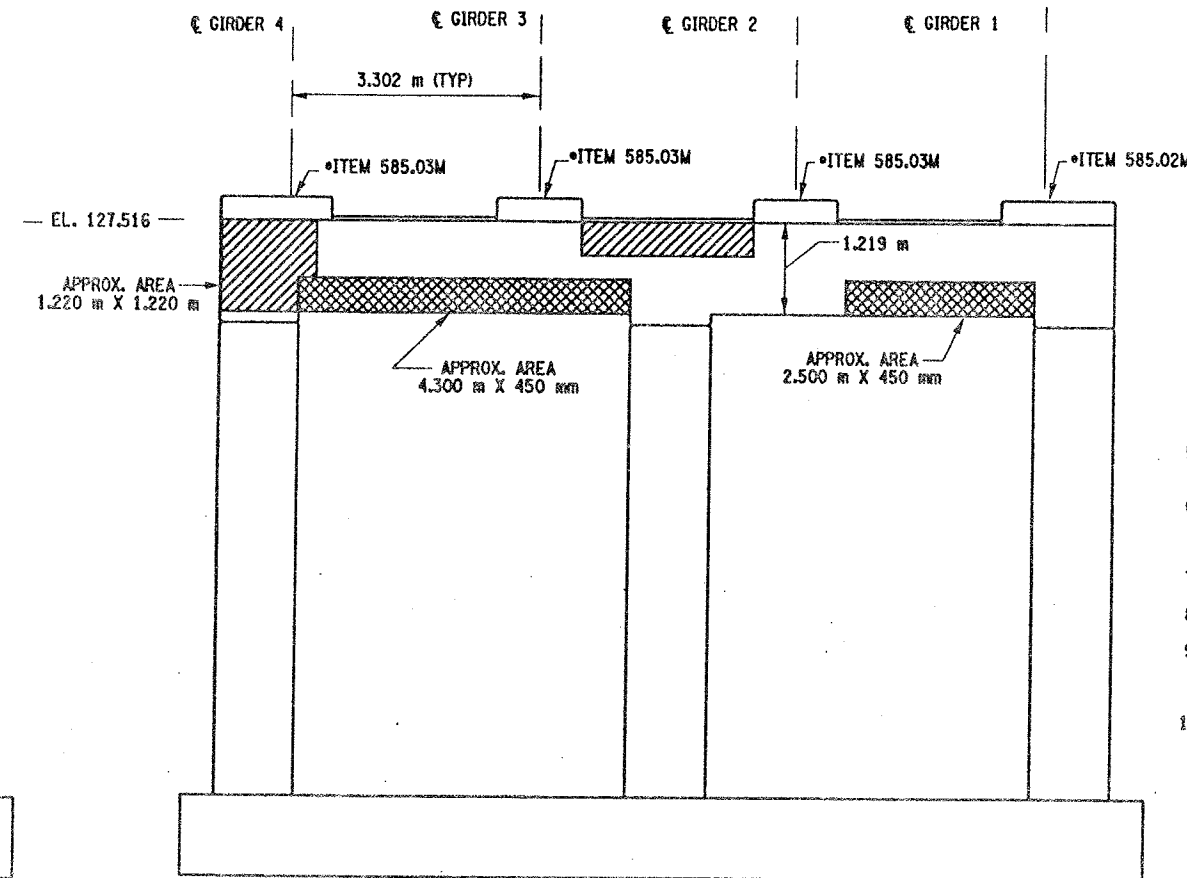
- LIST OF ITEMS USED
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
  - ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L. (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

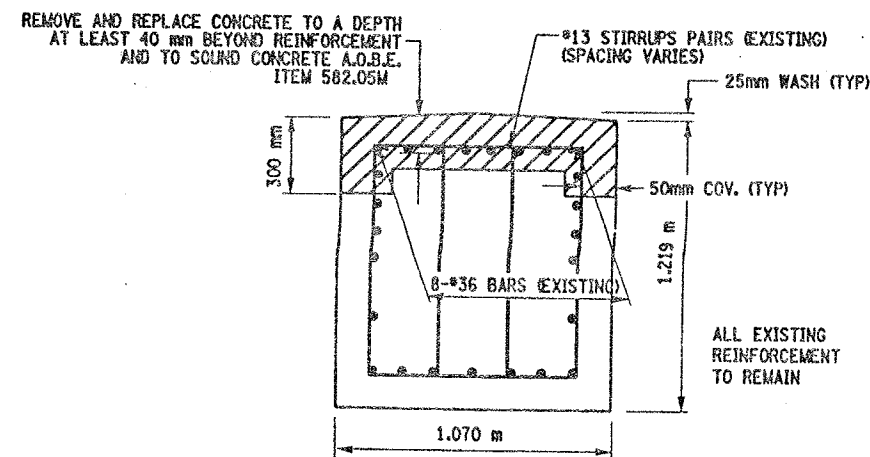
FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	314	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. 1093571	



PIER 14 - FRONT FACE (LOOKING NORTH)  
BIN 1093571  
SCALE: 1 TO 50



PIER 14 - BACK FACE (LOOKING SOUTH)  
BIN 1093571  
SCALE: 1 TO 50



SECTION 00-00  
NOT TO SCALE

LIST OF ITEMS USED:

ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. SEE DWG. PR17-10H FOR SECTION DD-DD.
8. SEE DWG. PR17-16S FOR SECTION II-II.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE	DATE		
INTERSTATE 481 SB OVER CSX RAILROAD YARD PIER 14			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P14	REGION 3	DATE 10/02	DRAWING NO. PR17-18S




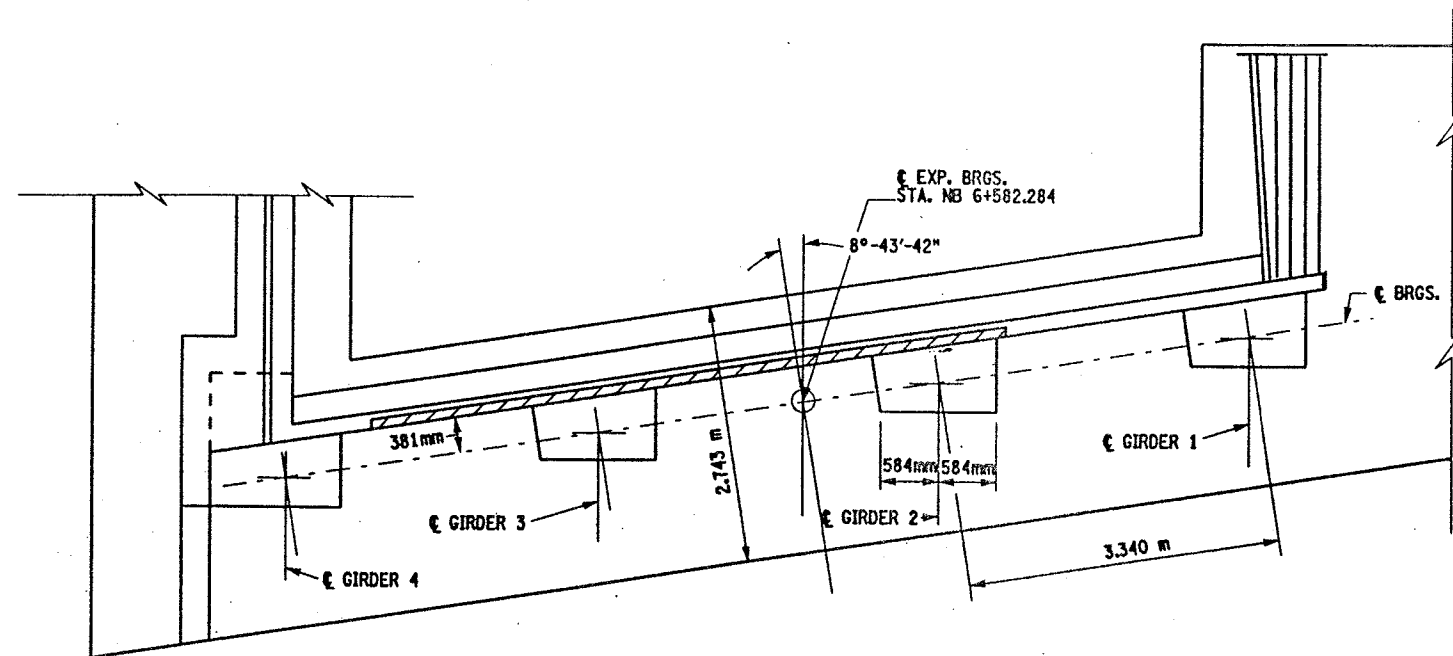
DESIGN SUPERVISOR  
JOB MANAGER  
CHECKED BY  
DESIGNED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	315	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWN OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

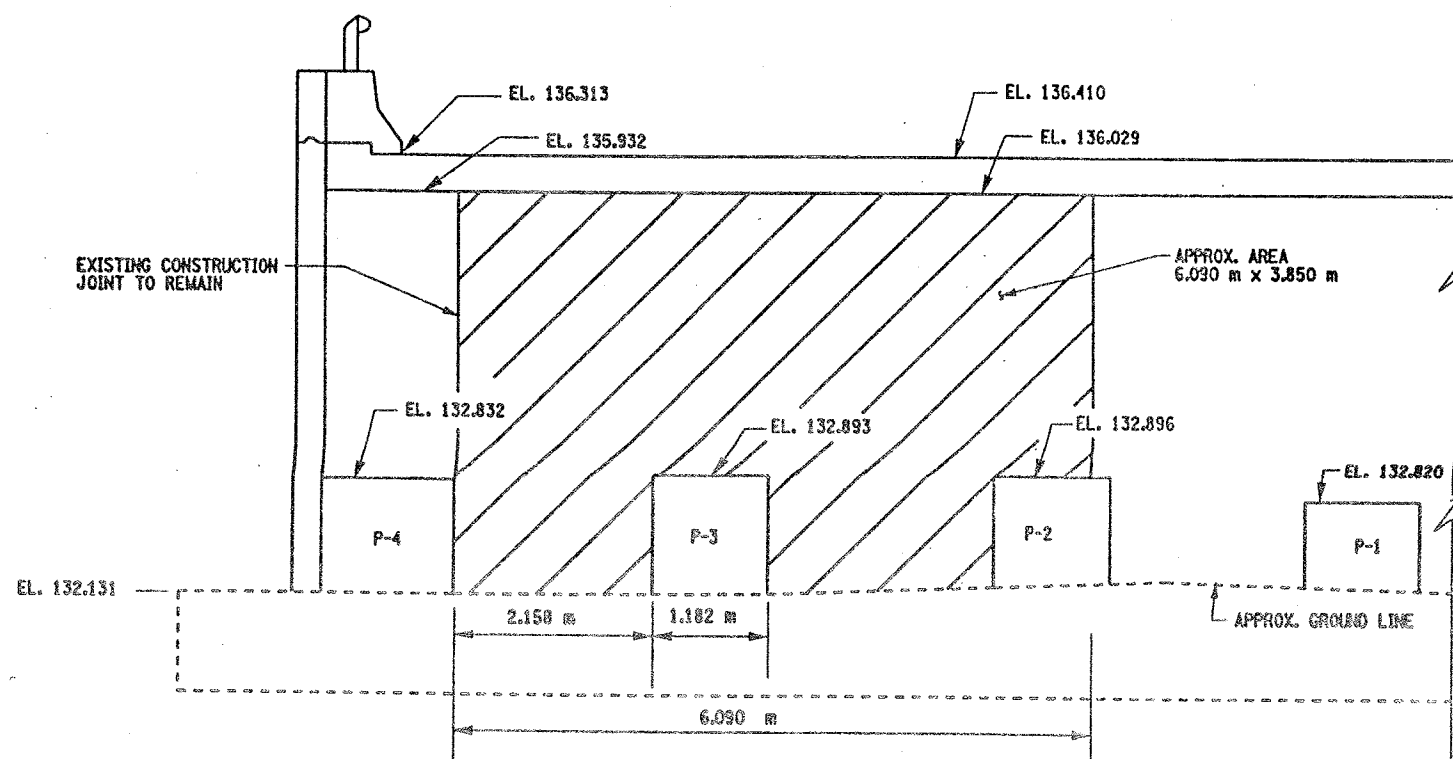
1. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND EIC.
2. REMOVE CONCRETE TO LIMITS SHOWN AS WELL AS TO SOUND CONCRETE, A.O.B.E.
3. WHEN REMOVING EXISTING CONCRETE, SAWCUT 5 mm MIN. TO PRODUCE NEAT REMOVAL LINES. ANY COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
4. INCLUDED IN THE BID PRICE FOR ITEM 582.05M.
5. ALL EXISTING REINFORCEMENT TO REMAIN.
6. ELEVATIONS ARE GIVEN FOR QUANTITY ESTIMATES ONLY.
7. REFER TO CONTRACT D250094 FOR ORIGINAL CONSTRUCTION DETAILS.

 AREAS OF PROPOSED WORK: ITEM 582.05M  
REMOVAL OF STRUCTURAL CONCRETE-  
REPLACEMENT WITH CLASS A CONCRETE (CM)



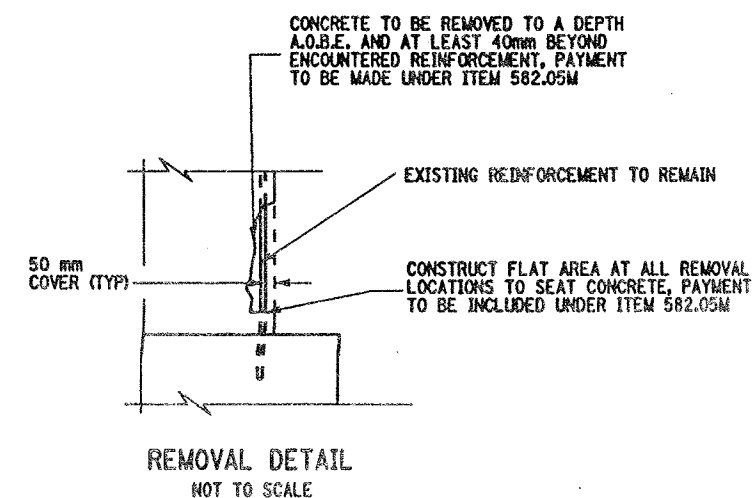
SOUTH ABUTMENT  
PLAN

SCALE 1:40



SOUTH ABUTMENT  
ELEVATION

SCALE 1:40

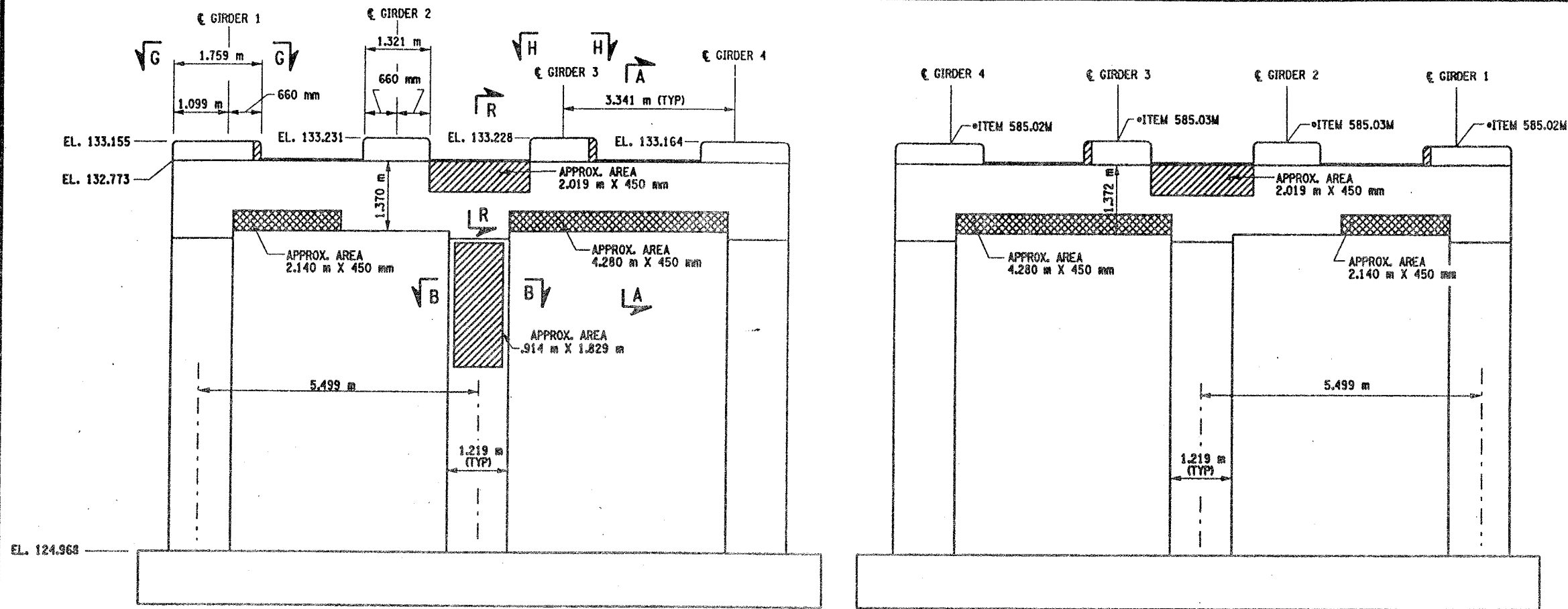


LIST OF ITEMS USED:  
ITEM 582.05M - REMOVE STRUCTURAL CONCRETE  
WITH CLASS A CONCRETE (CM)

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

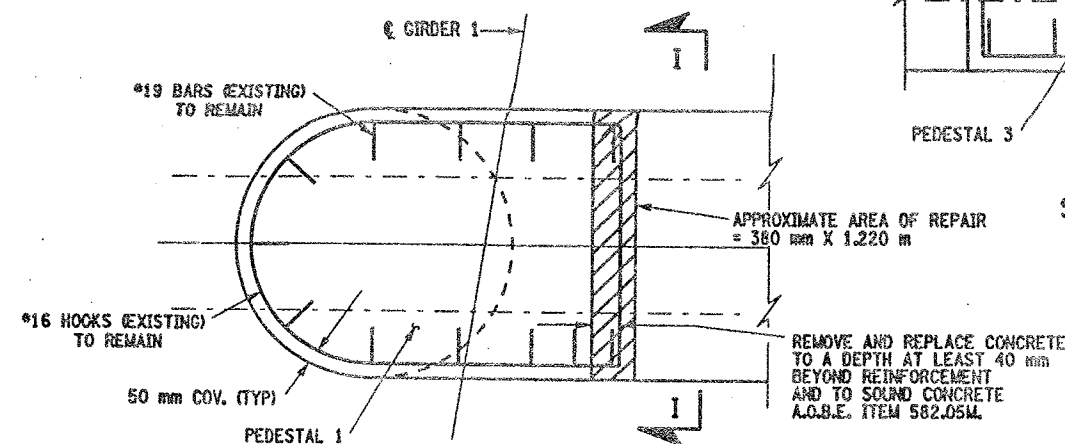
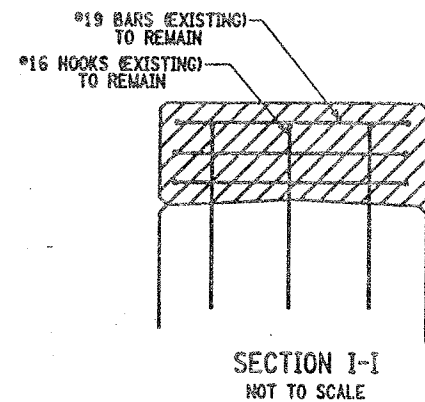
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INTERSTATE 481 NB OVER CSX RAILROAD SOUTH ABUTMENT			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.A1B	REGION 3	DATE 10/02	DRAWING NO. AB17-1

CHECKED BY  
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CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

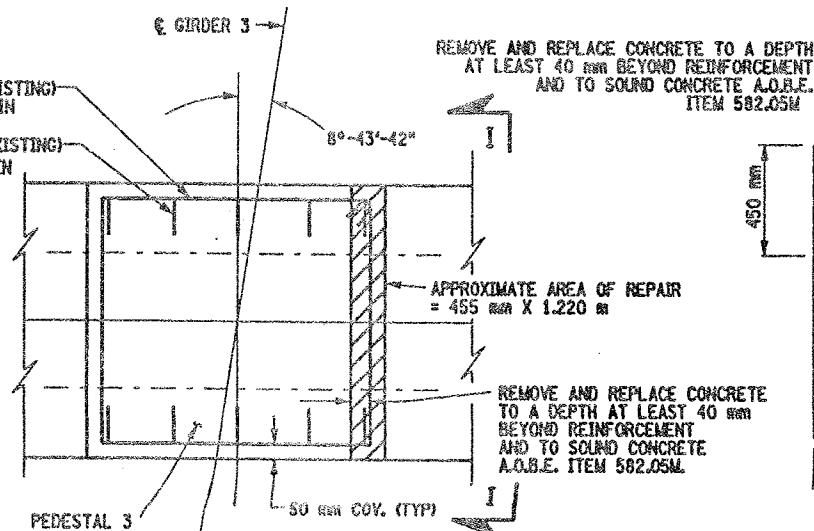


PIER 1 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50



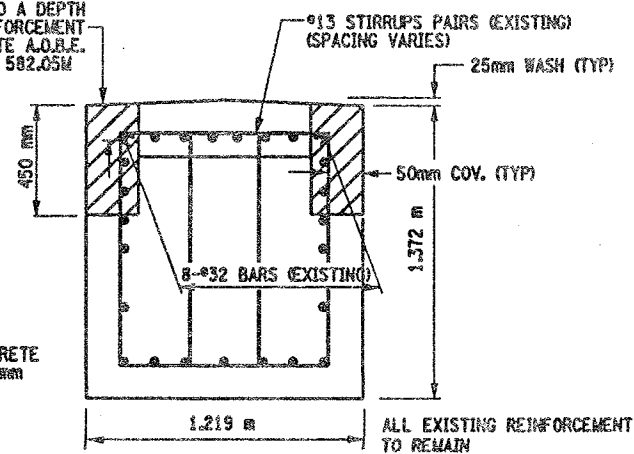
SECTION G-G  
NOT TO SCALE



SECTION H-H  
NOT TO SCALE

PIER 1 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50



SECTION R-R  
NOT TO SCALE

LIST OF ITEMS USED:

ITEM 15565.4302 - BRIDGE BEARING RESTORATION  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	316	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.J.L. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES.
8. FOR SECTION A-A AND B-B SEE DWG. PR17-25.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
10. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.
11. FOR JACKING NOTES SEE DWG. PR17-15.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 1	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P1A	REGION 3
DATE 10/02	DRAWING NO. PR17-1N

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	317	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  - SEE DWG. PR17-2S FOR SECTION A-A, D-D AND DETAIL "A".
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S
  - CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL (CM)

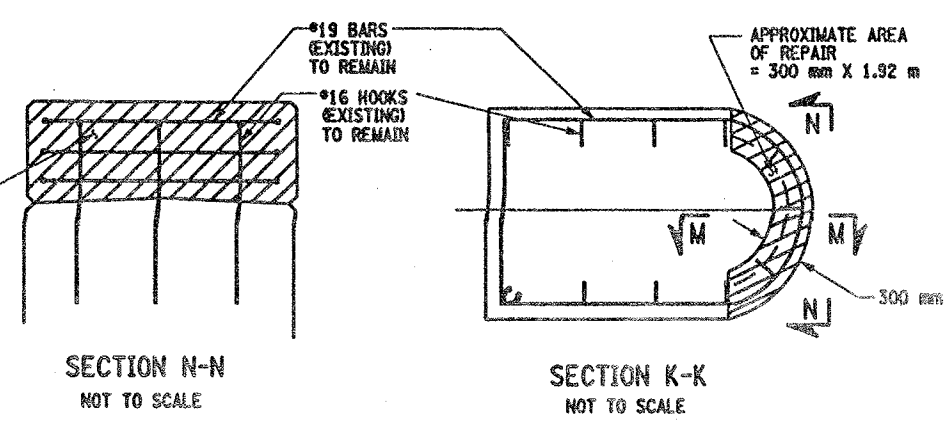
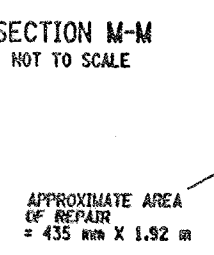
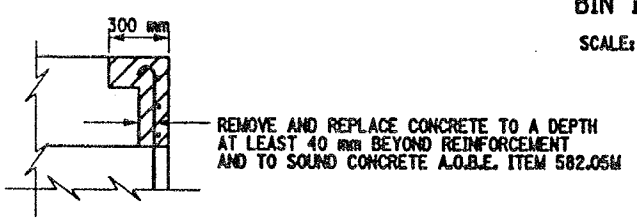
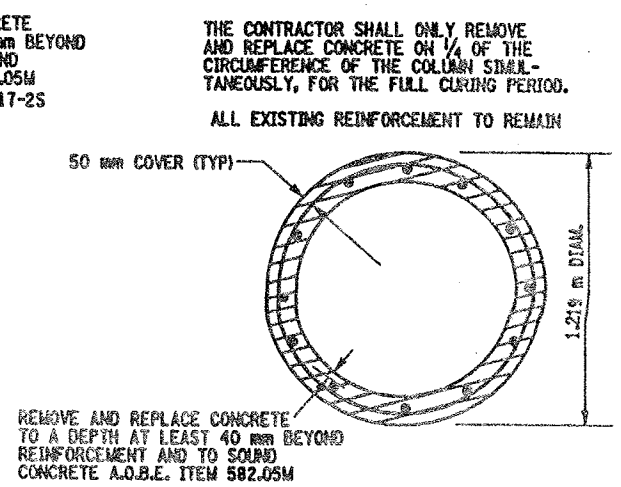
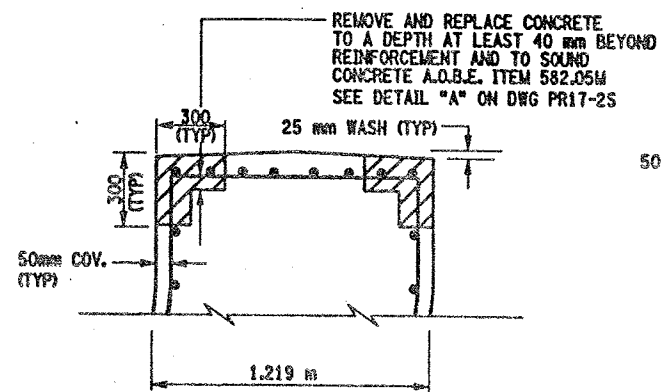
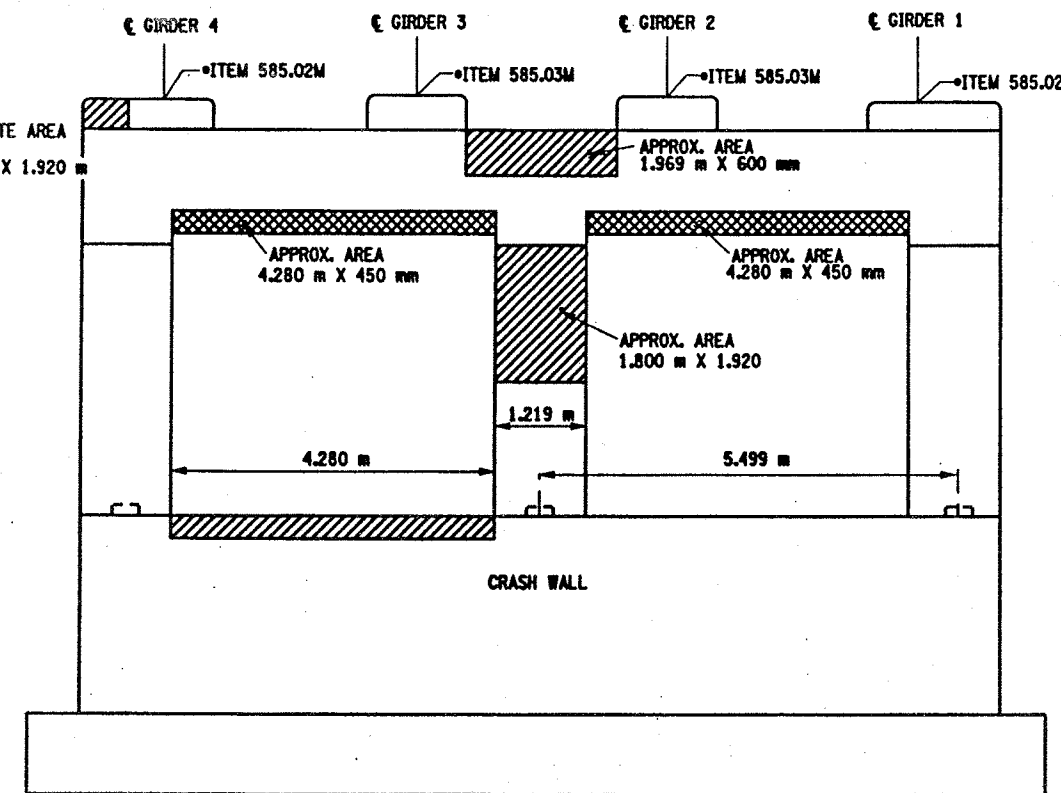
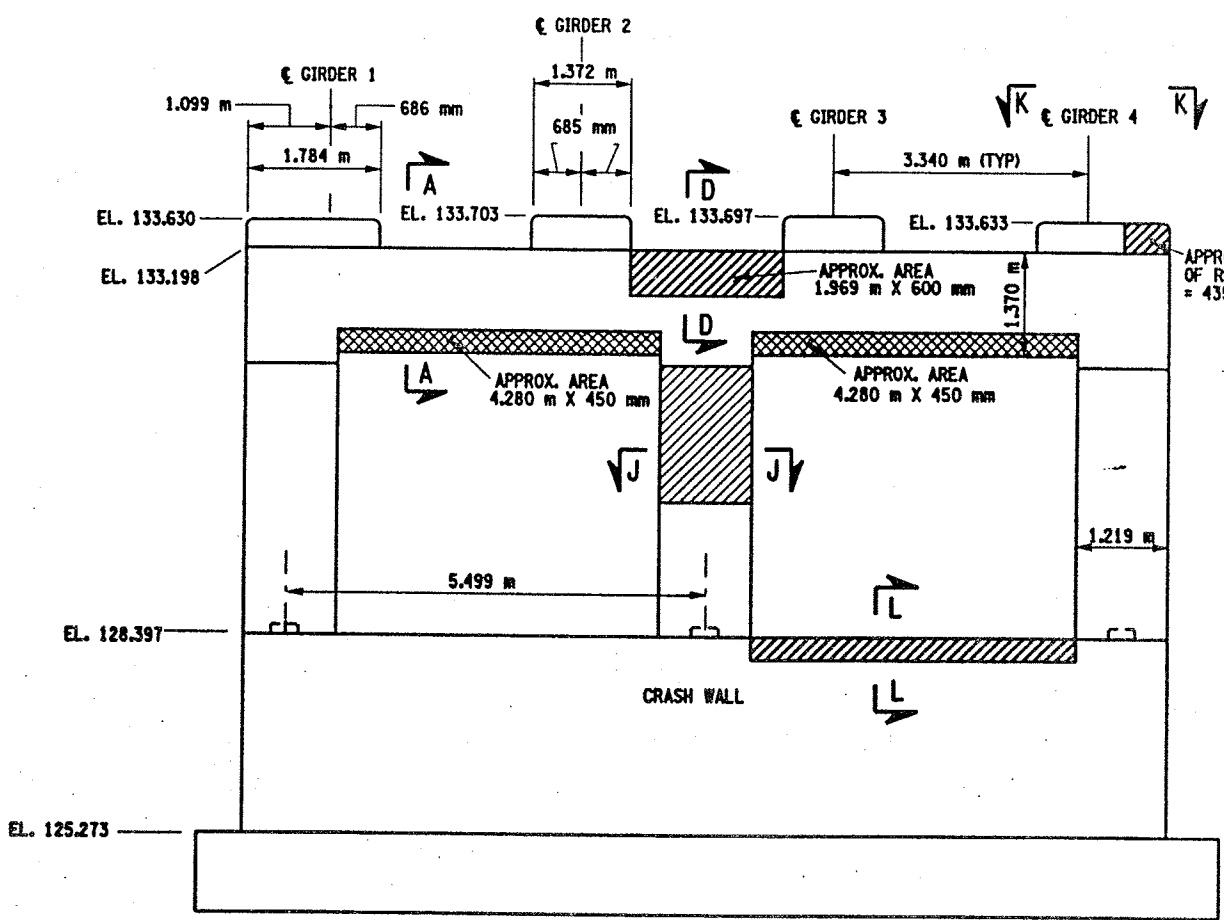
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 2	

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P2A	3	10/02	PR17-2N





- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MATL. (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)




1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.L.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS), SEE DWG BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A"
9. SEE DWG. PR17-2N FOR SECTION J-J
10. PEDESTAL 4 SHALL BE REPLACED TO EXISTING DIMENSIONS. ITEM 555.0105 M
11. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
12. FOR JACKING NOTES SEE DWG. PR17-1S
13. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAPBEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

**JACKING LOADS:**  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

 ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (C&D)

 ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL (C&D)

 ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE (C&D) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A (C&D)

AS BUILT REVISIONS

INTERSTATE 401 NB  
OVER  
CSX RAILROAD YARD  
PIER 3

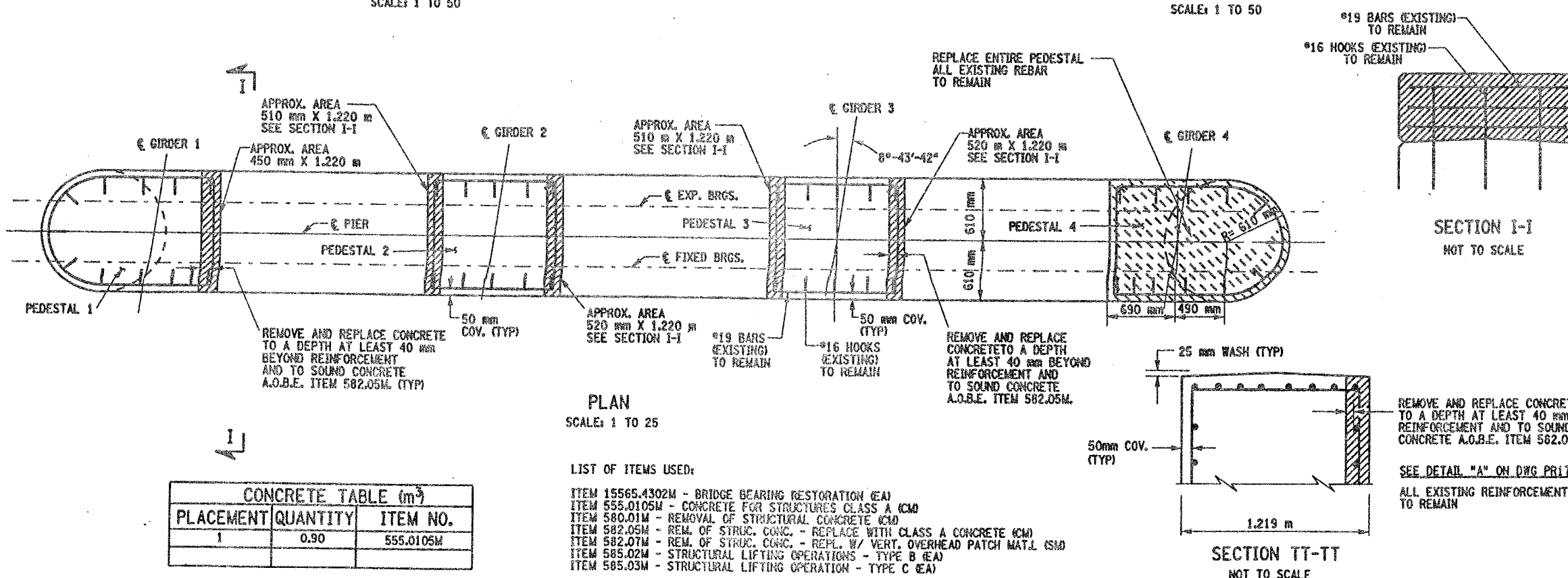
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P3A	3	10/02	PR17-3N



SCALE: 1 TO 50

SCALE: 1 TO 50



DESIGN SUPERVISOR \_\_\_\_\_ JOB MANAGER \_\_\_\_\_ DESIGNED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_ ESTIMATED BY \_\_\_\_\_ DRAFTED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	319	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)	
VARIOUS BRIDGES ON INTERSTATE 481	
TOWNS OF DEWITT AND CICERO	
ONONDAGA COUNTY	
P.I.N. 305613	B.I.N. 1093572

- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 AND BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  8. SEE DWG. PR17-2S FOR SECTIONS A-A, D-D AND DETAIL "A".
  9. SEE DWG. PR17-4S FOR SECTION O-O.
  10. SEE DWG. PR17-2N FOR SECTION L-L.
  11. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  12. FOR JACKING NOTES SEE DWG PR17-1S.
  13. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF PEDESTALS AND TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS OTHER ITEMS OF CONTRACT.

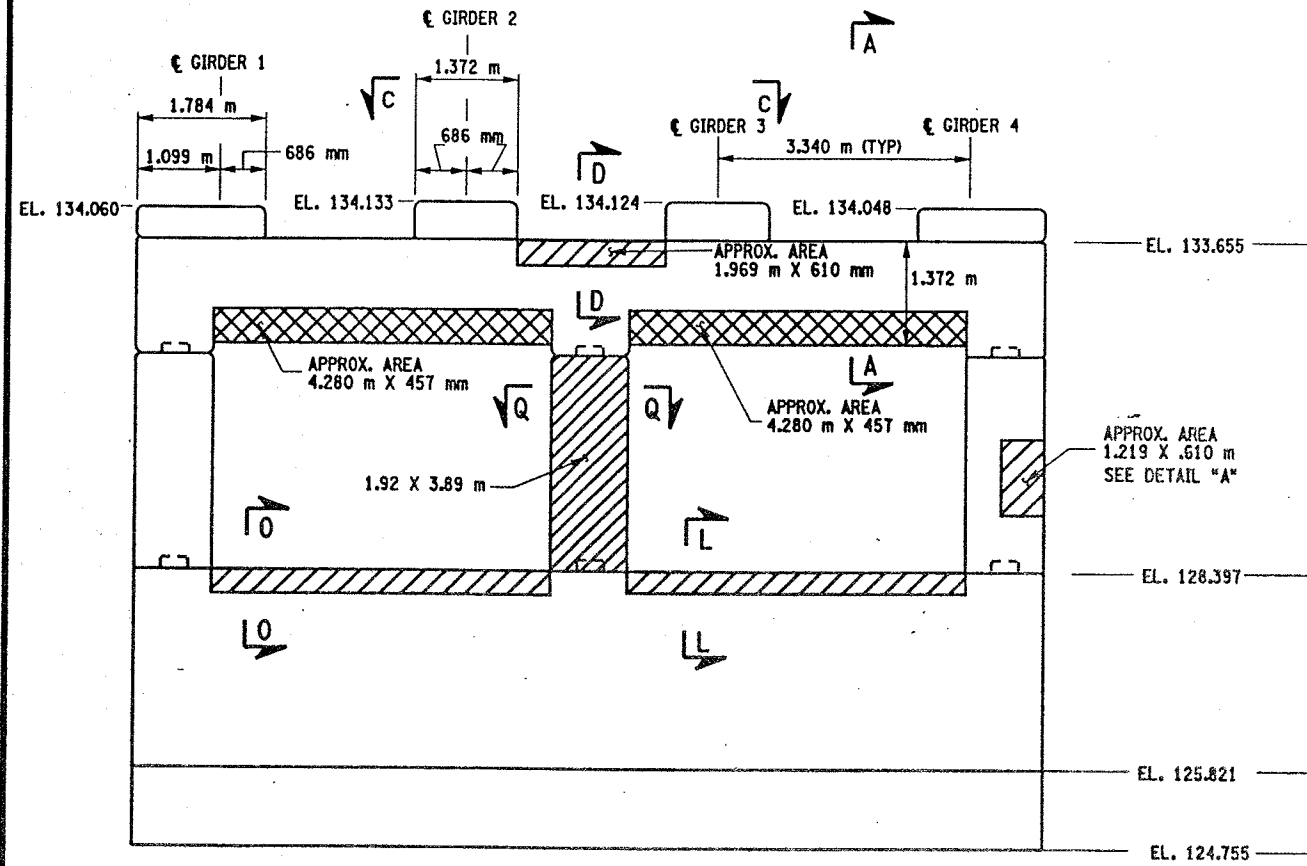
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

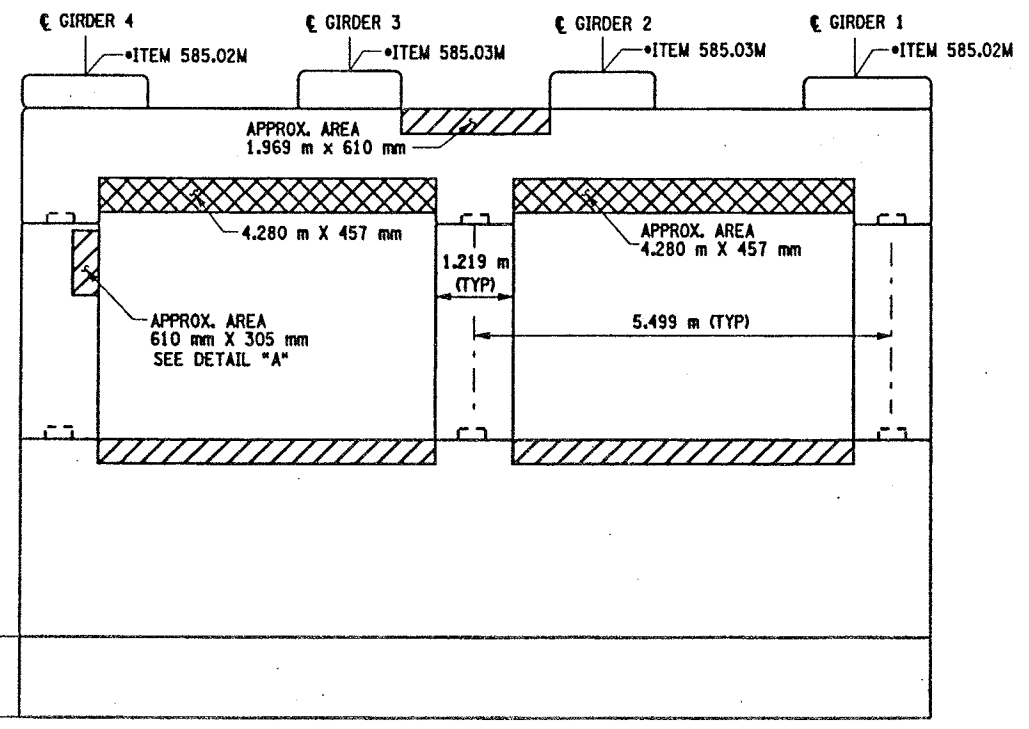
- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONC. REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS			
SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD PIER 4			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P4A	REGION 3	DATE 10/02	DRAWING NO. PR17-4N

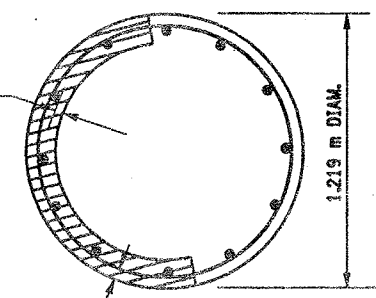


PIER 4 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

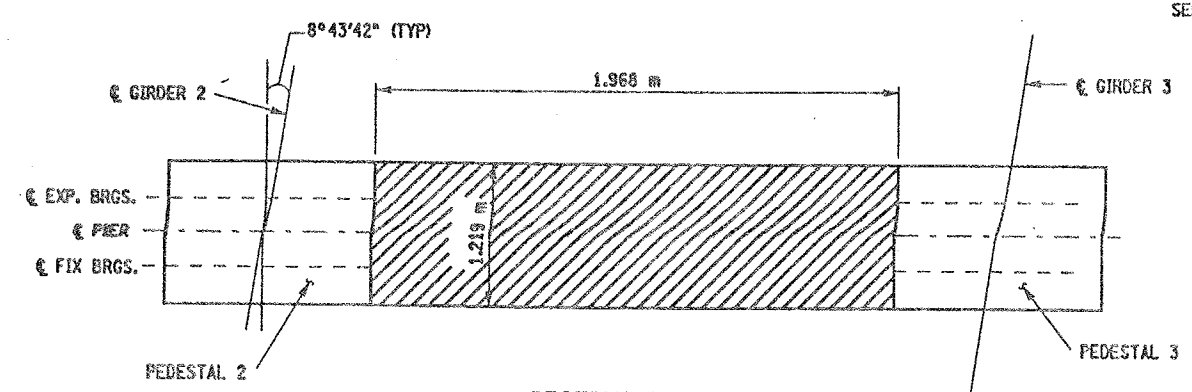


PIER 4 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

REMOVE AND REPLACE CONCRETE TO A DEPTH AT LEAST 40 mm BEYOND REINFORCEMENT AND TO SOUND CONCRETE A.O.B.E. ITEM 582.05M SEE DETAIL "A" THIS SHEET



THE CONTRACTOR SHALL ONLY REMOVE AND REPLACE CONCRETE ON 1/4 OF THE CIRCUMFERENCE OF THE COLUMN SIMULTANEOUSLY, FOR THE FULL CURING PERIOD.



SECTION C-C  
NOT TO SCALE

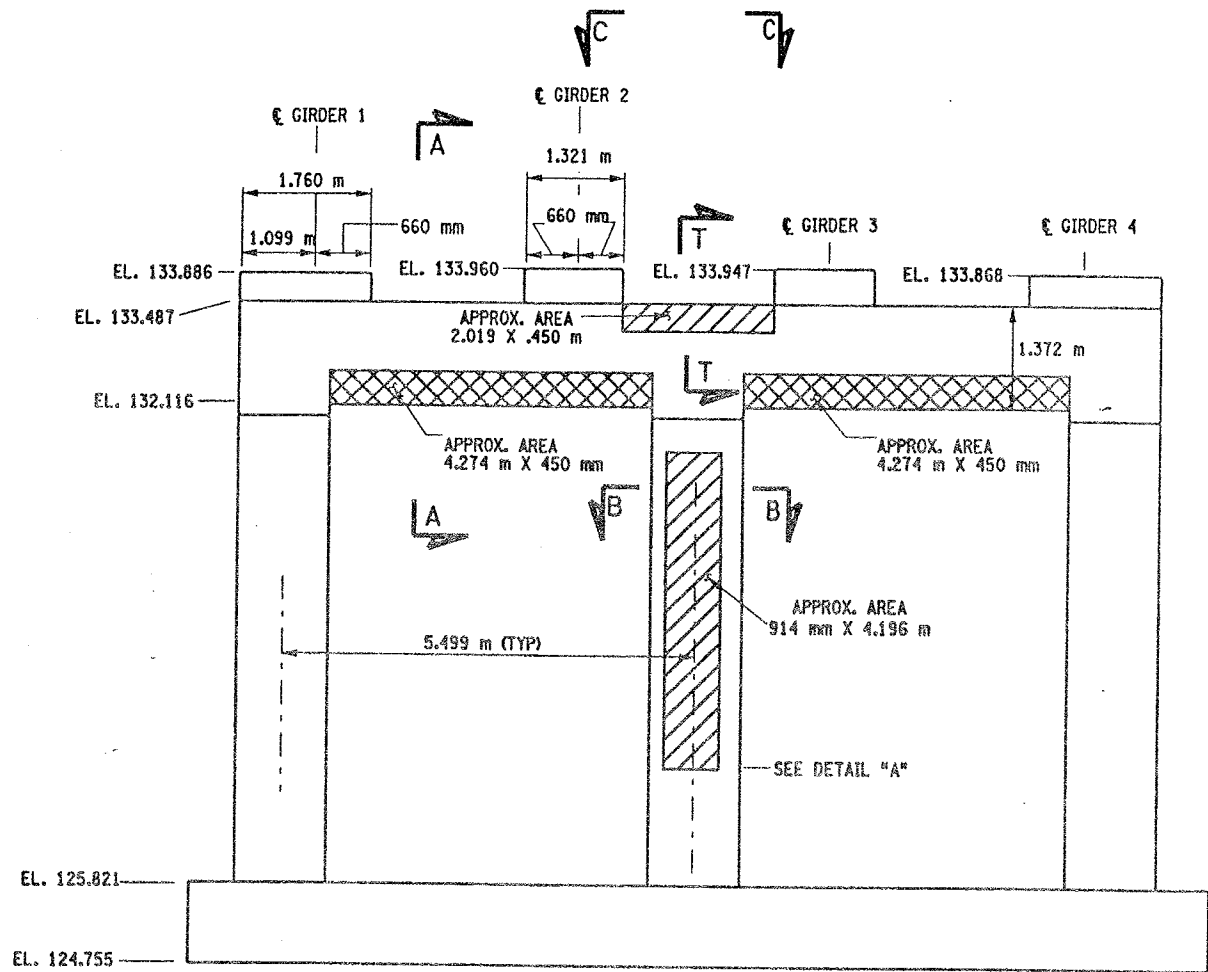
LIST OF ITEMS USED:

- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/VERT. OVERHEAD PATCH MAT'L (CM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
- ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (CA)

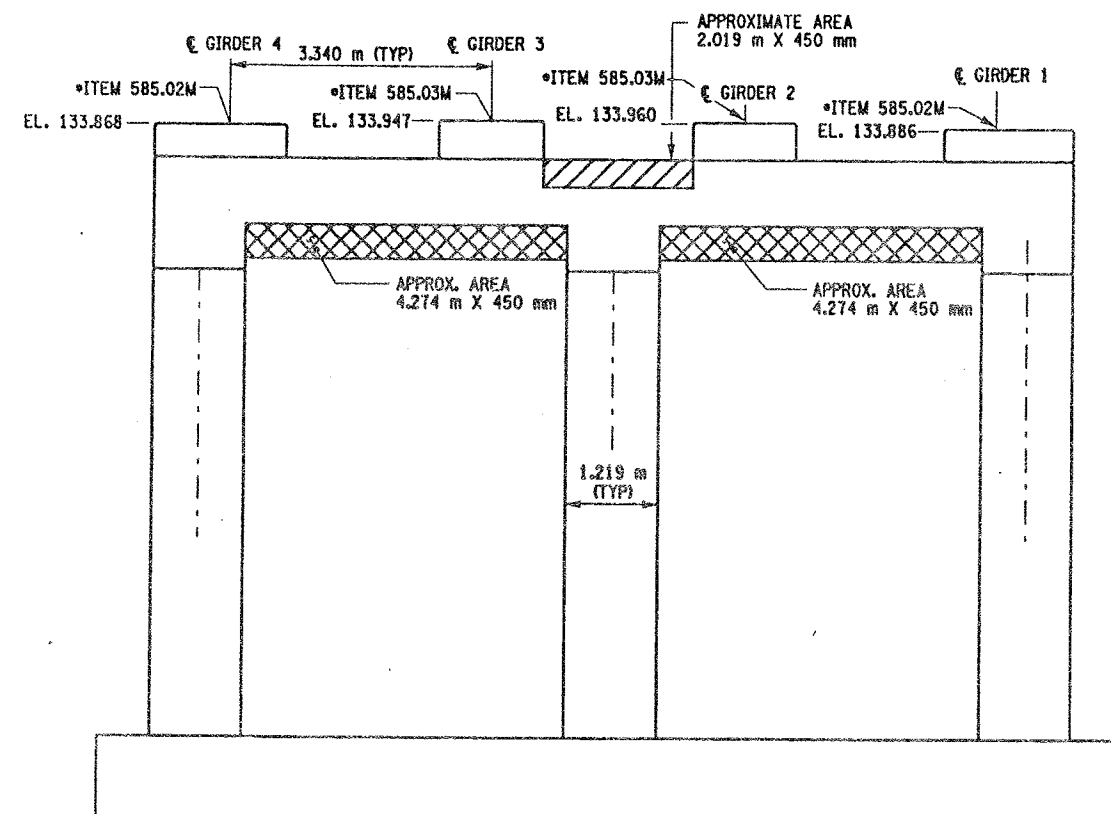
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	320	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

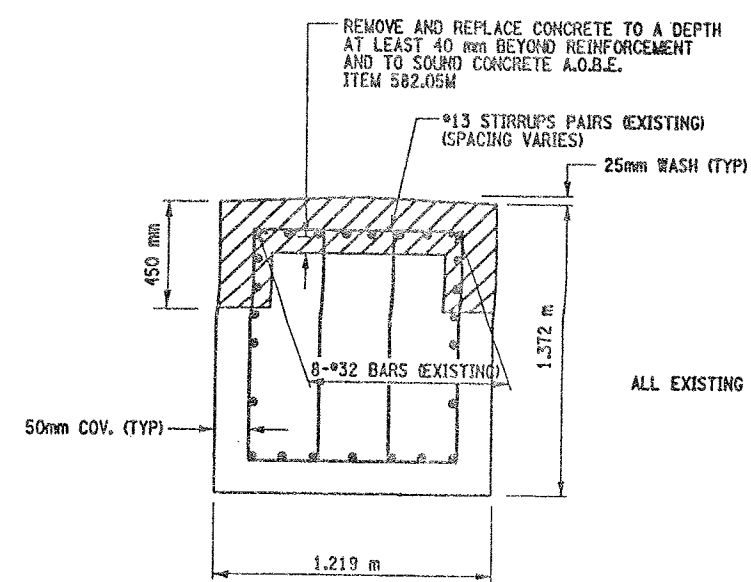
- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
  8. SEE DWG. PR17-2S FOR SECTION A-A AND B-B AND DETAIL "A".
  9. SEE DWG. PR17-1S FOR SECTION C-C.
  10. ALL CONCRET REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  11. FOR JACKING NOTES SEE DWG. PR17-1S.
  12. CONTRACTOR SHALL REMOVE DEBRIS FROM TOP OF CAP BEAM. COST TO BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS OF CONTRACT.



PIER 5 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50



PIER 5 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



SECTION T-T  
NOT TO SCALE

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
O.L. = 100 MT  
L.L. = 50 MT  
TOTAL = 150 MT

ALL EXISTING REINFORCEMENT TO REMAIN

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (CM)

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (CM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

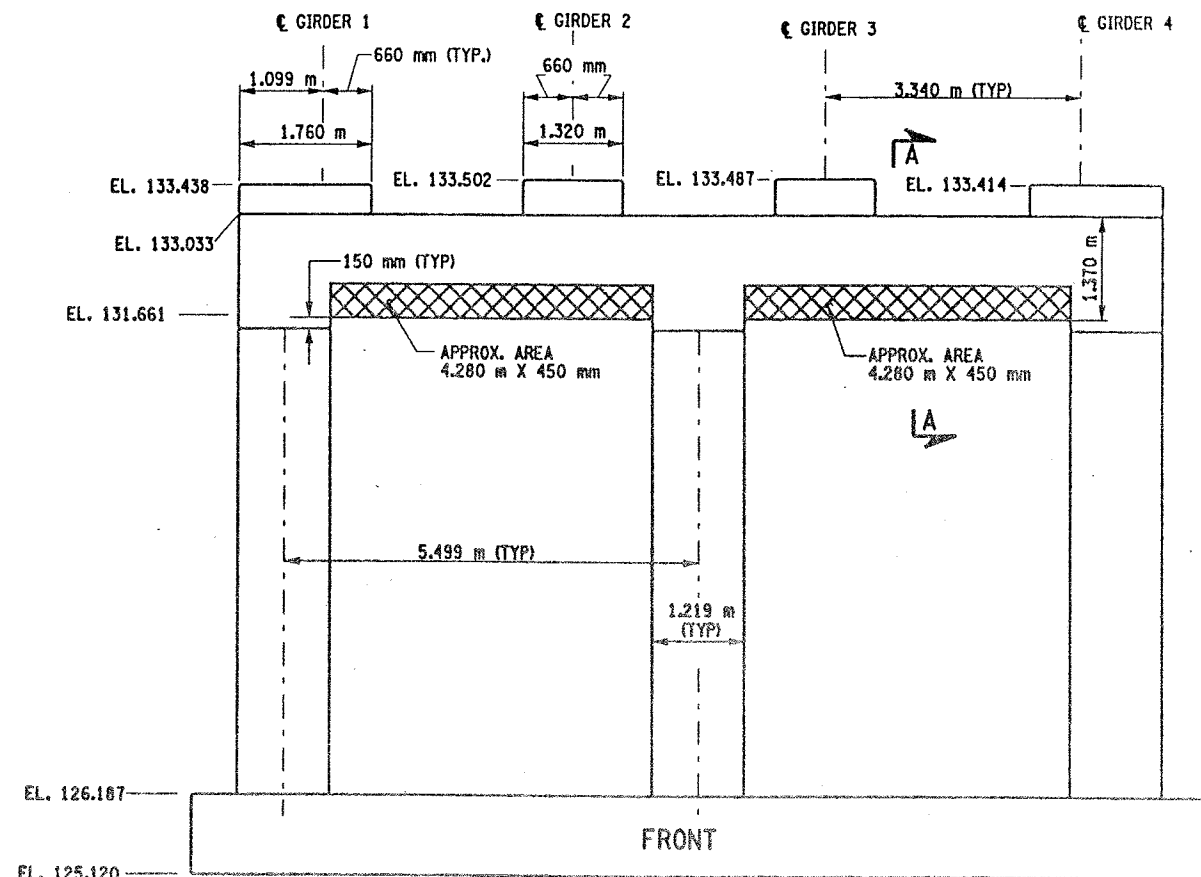
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 5			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P5A	REGION 3	DATE 10/02	DRAWING NO. PR17-5M



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

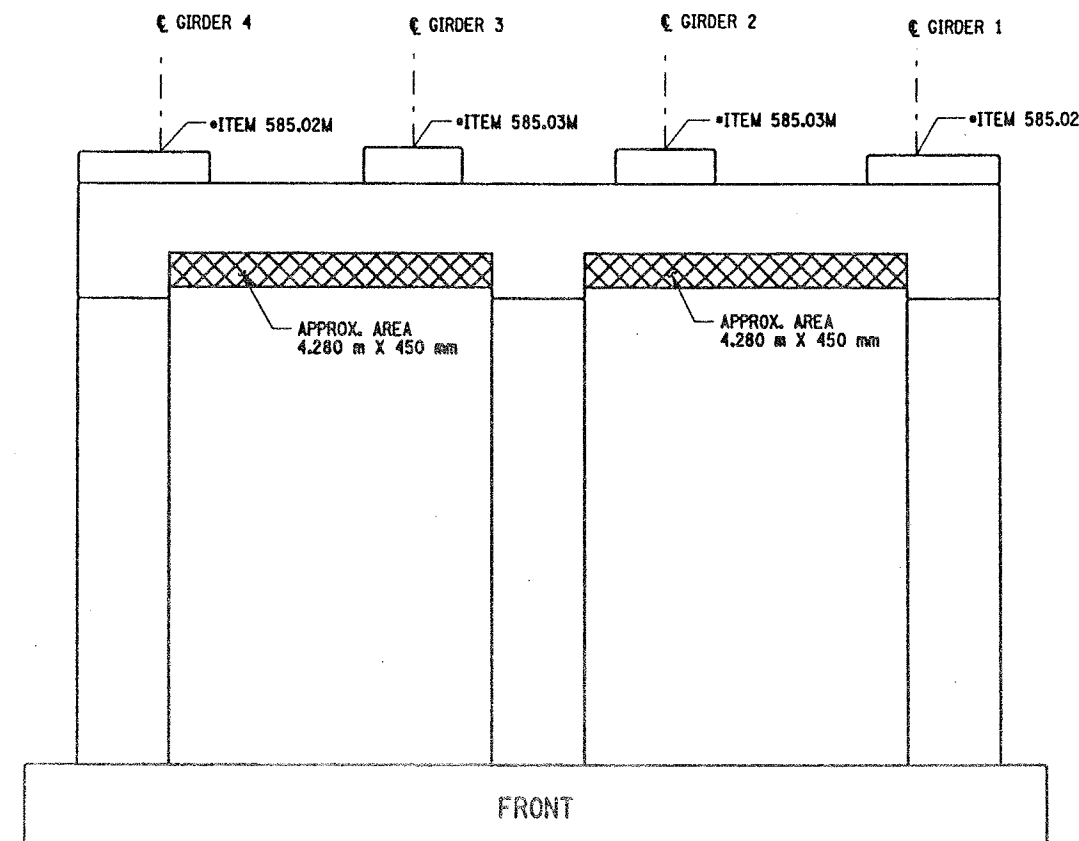
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	321	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	



PIER 6 -FRONT FACE (LOOKING NORTH)

BIN 1093572

SCALE: 1 TO 50



PIER 6 BACK FACE (LOOKING SOUTH)

BIN 1093572

SCALE: 1 TO 50

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES.
8. SEE DWG. PR17-25 FOR SECTION "A-A".
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG. PR17-15.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND



ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 6



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME REGION DATE DRAWING NO.  
305613AE.P6A 3 10/02 PR17-6N

LIST OF ITEMS USED:

ITEM 15565.4302M- BRIDGE BEARING RESTORATION (EA)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	322	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
9. FOR JACKING NOTES SEE DWG. PR17-15.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

NOT TO SCALE

LEGEND:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE 481 NB  
OVER  
CSX RAILROAD YARD  
PIER 7

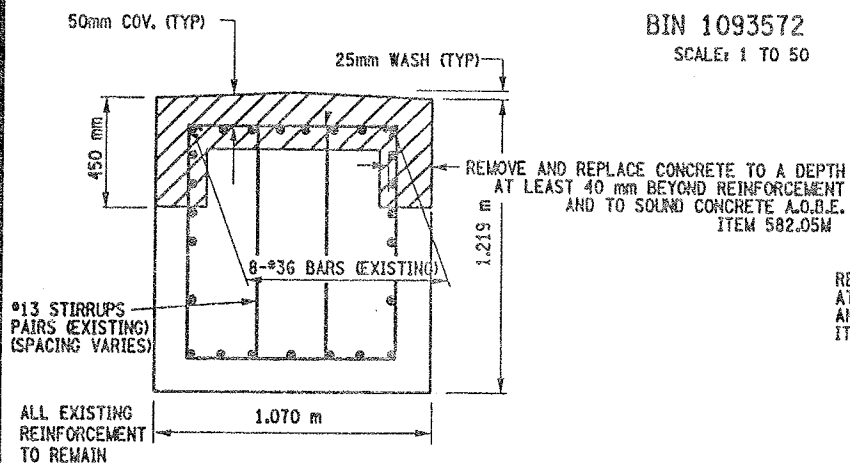
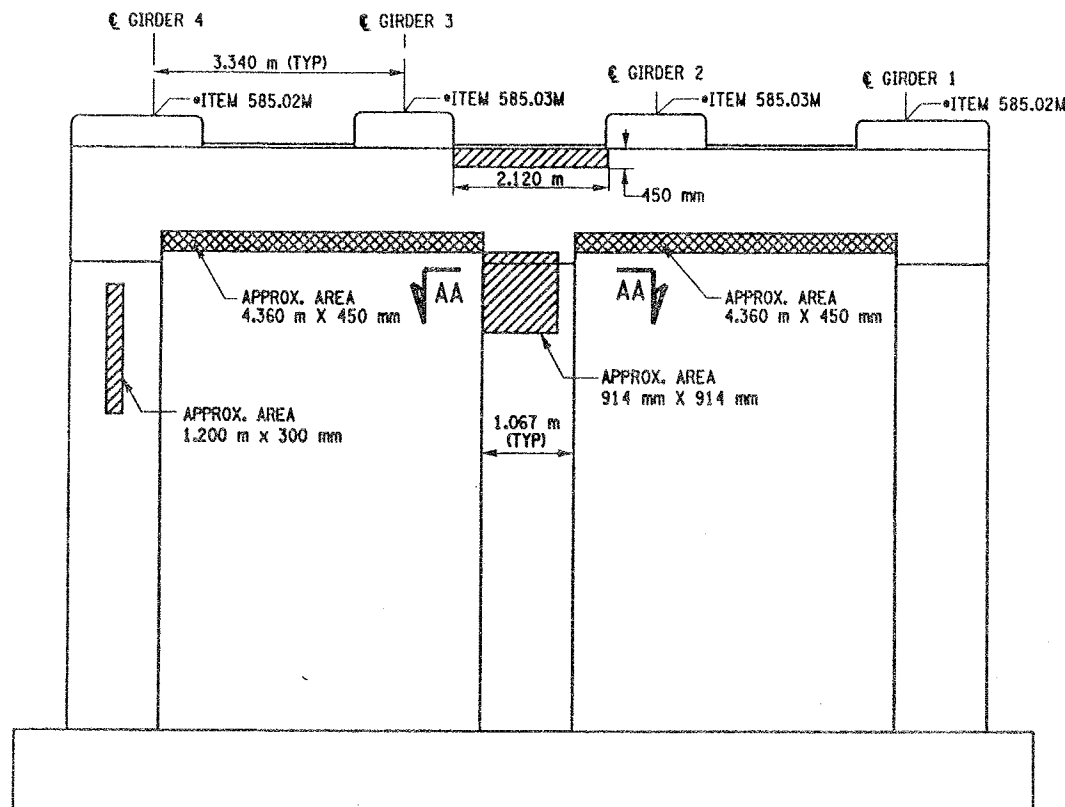
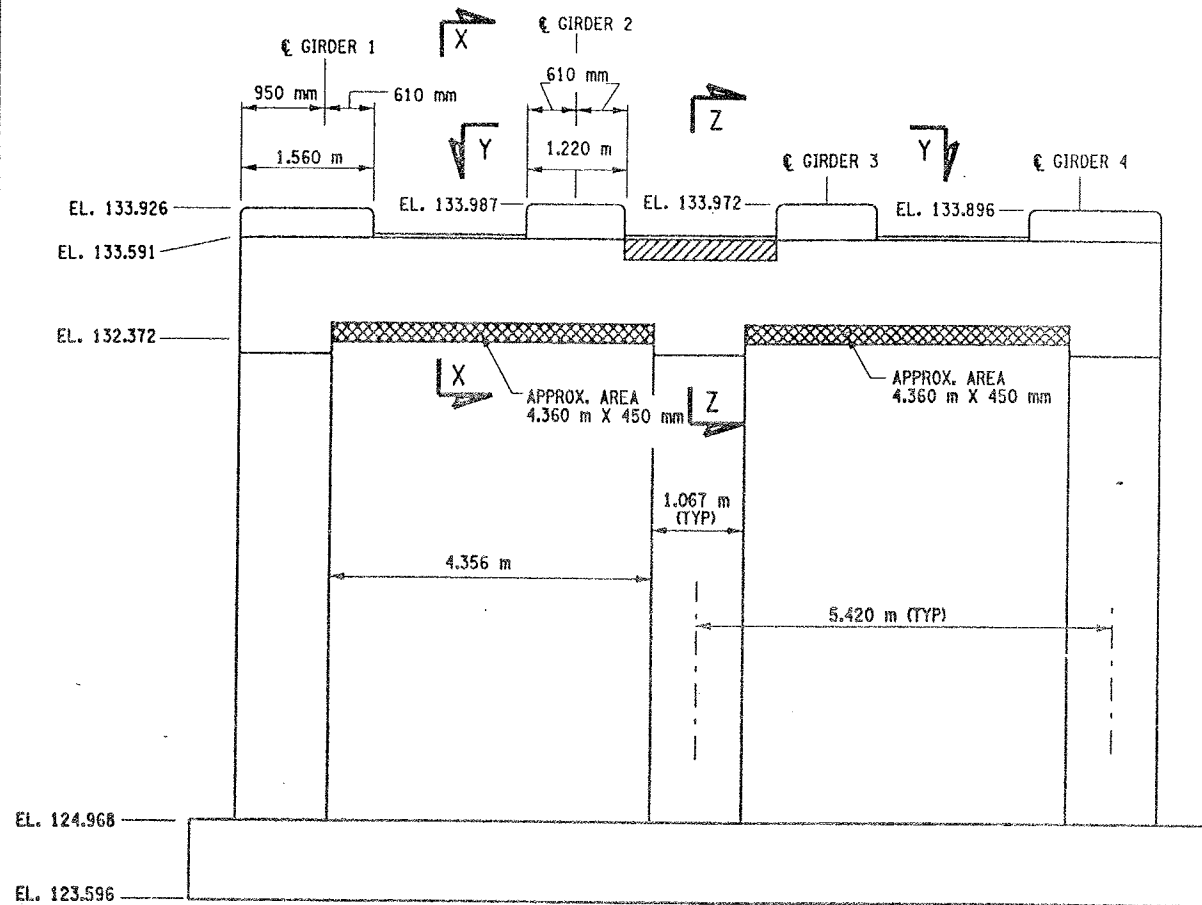
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613AE.PTA

REGION  
3

DATE  
10/02

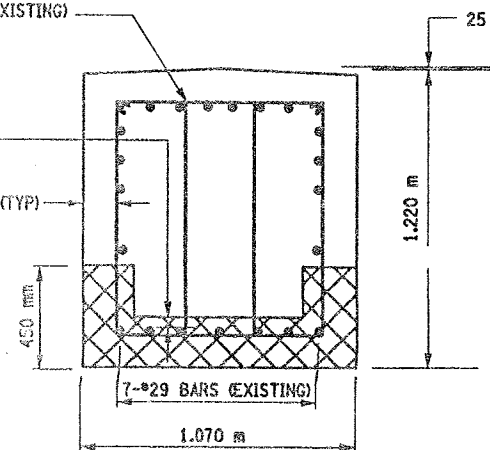
DRAWING NO.  
PR17-7N



#13 STIRRUPS PAIRS (EXISTING)  
(SPACING VARIES)

REMOVE AND REPLACE CONCRETE TO A DEPTH  
AT LEAST 40 mm BEYOND REINFORCEMENT  
AND TO SOUND CONCRETE A.O.B.E.  
ITEM 582.07M

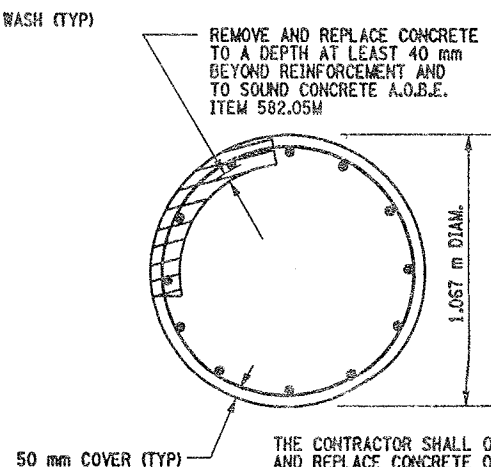
50mm COV. (TYP)



ALL EXISTING REINFORCEMENT TO REMAIN

SECTION X-X

NOT TO SCALE

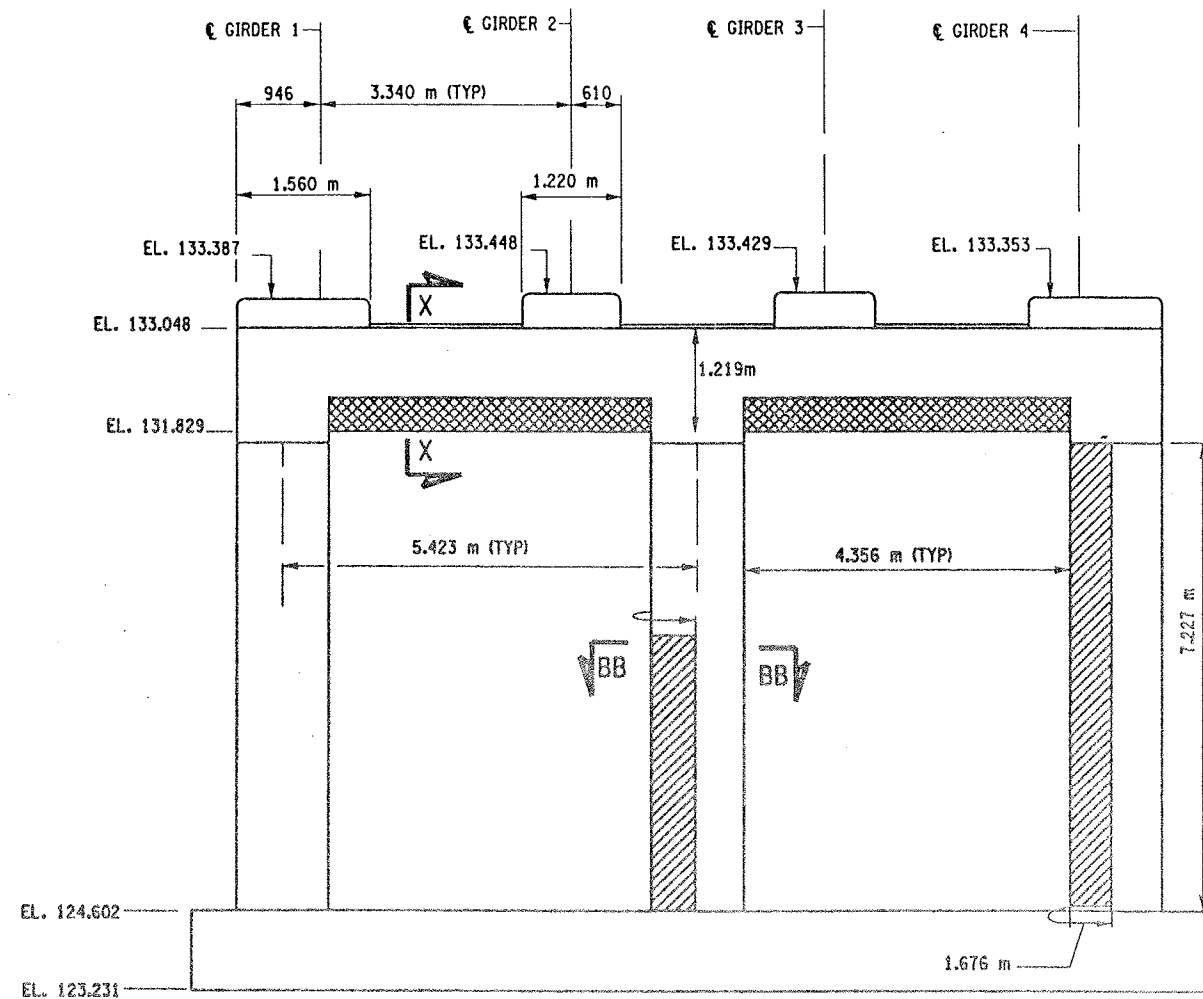


SECTION AA-AA

LIST OF ITEMS USED:

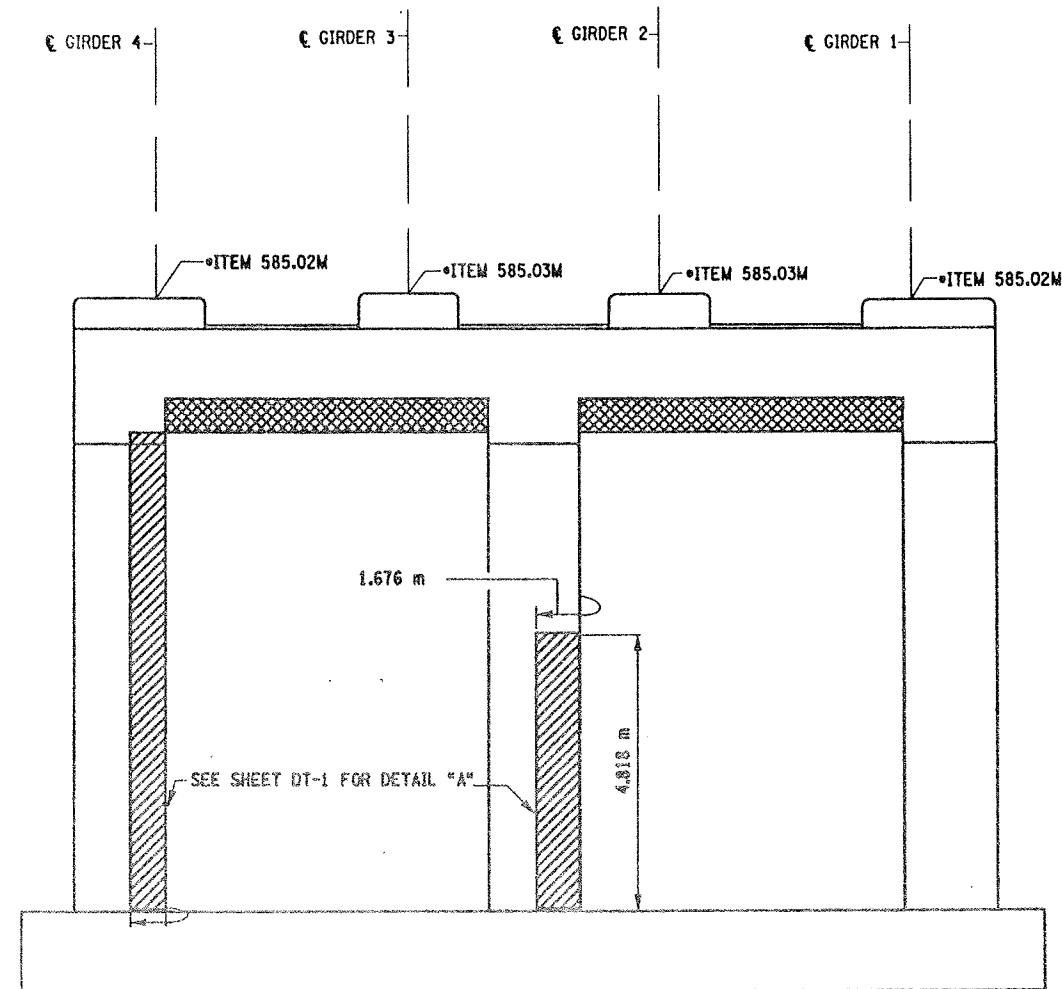
ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

DESIGN SUPERVISOR  
DESIGNED BY  
CHECKED BY  
ESTIMATED BY  
DRAFTED BY  
CHECKED BY



PIER 8 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50



PIER 8 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (BA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (BA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (BA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	323	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:

- ALL REINFORCEMENT TO REMAIN.
- RESTORE TO ORIGINAL DIMENSIONS.
- PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
- FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
- ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
- REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
- PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS. SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES.
- SEE DWG. PR17-12S FOR SECTION BB-BB.
- SEE DWG. PR17-7N FOR SECTION X-X.
- ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
- FOR JACKING NOTES SEE DWG PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

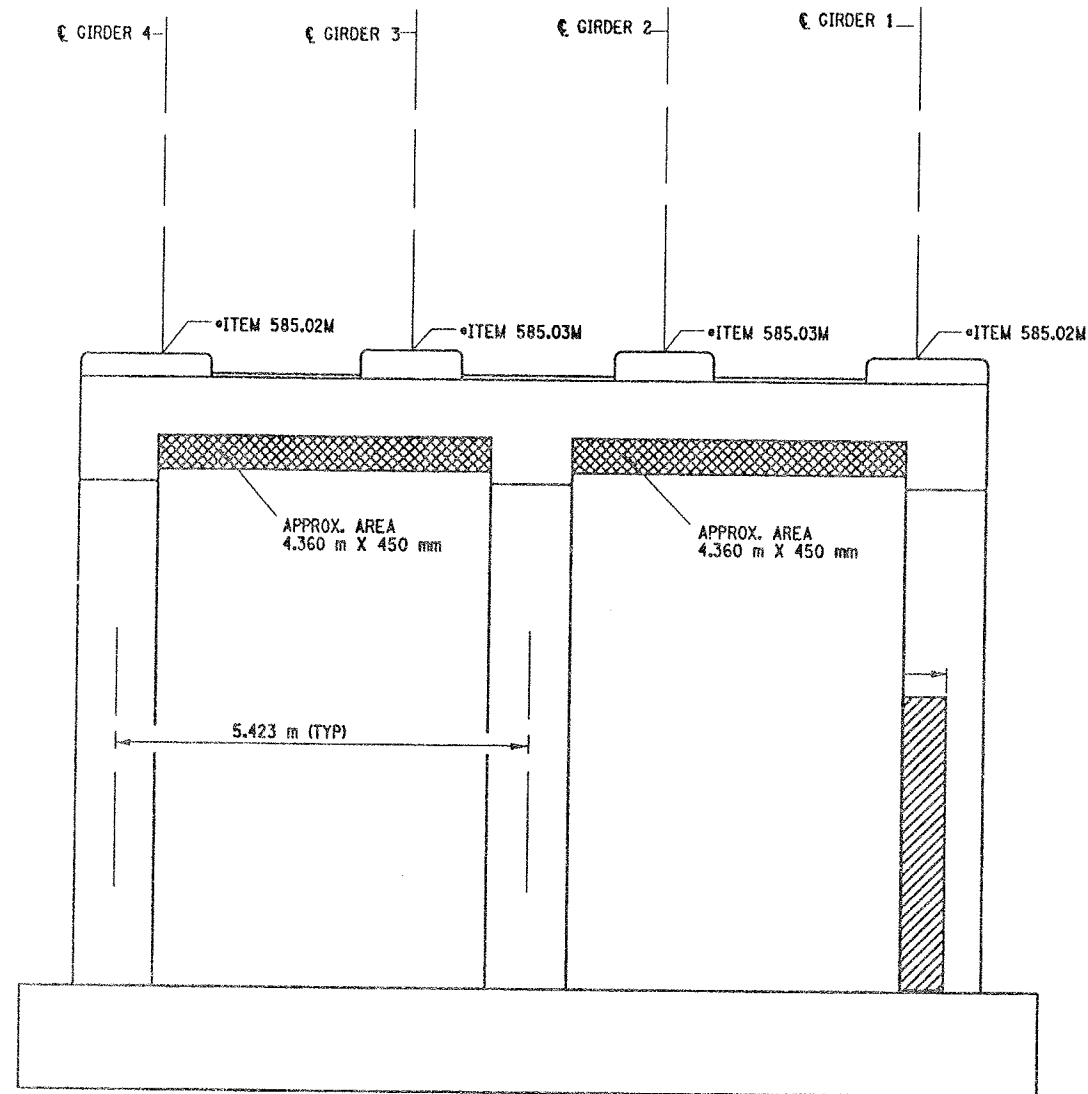
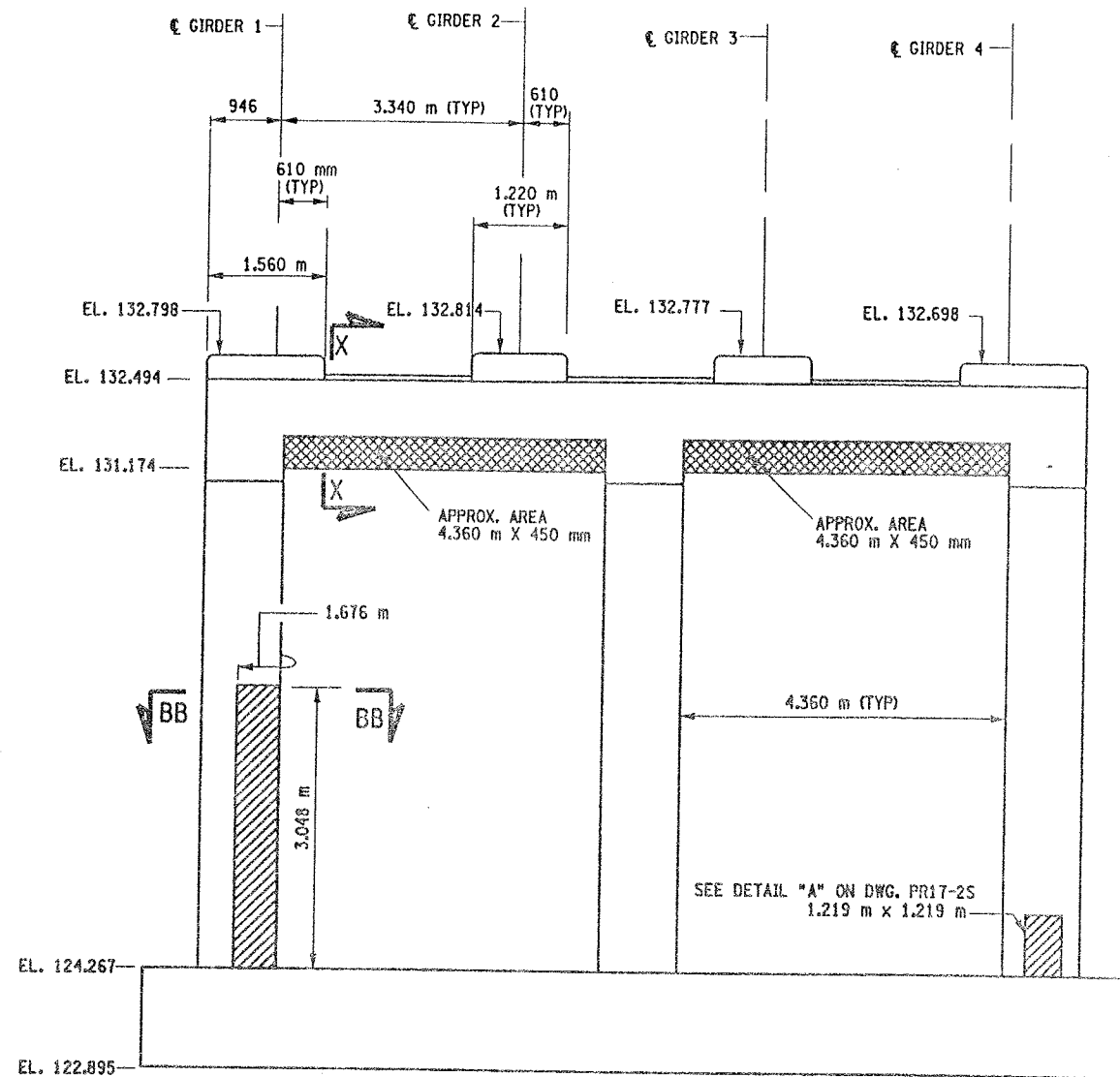
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

ALL DIMENSIONS PER 24 HR			
<u>AS BUILT REVISIONS</u>			
SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 8			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P8A	REGION 3	DATE 10/02	DRAWING NO. PR17-8N



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	324	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

NOTES:



1. ALL REINFORCEMENT TO REMAIN.
2. RESTORE TO ORIGINAL DIMENSIONS.
3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
8. SEE DWG. PR17- 12S FOR SECTION BB-BB.
9. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
10. FOR JACKING NOTES SEE DWG PR17-1S
11. SEE DWG. PR17-7N FOR SECTION X - X.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:

D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

LEGEND:

-  ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
-  ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE

DATE

INTERSTATE ROUTE 481 NB  
OVER CSX RAILROAD YARD  
PIER 9

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME  
305613AE.P9A

REGION  
3

DATE  
10/02

DRAWING NO.  
PR17-9N

LIST OF ITEMS USED:

ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)  
ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)  
ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT.L (SM)  
ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)  
ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	325	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - FOR SECTION AA-AA SEE DWG. PR17-7N.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

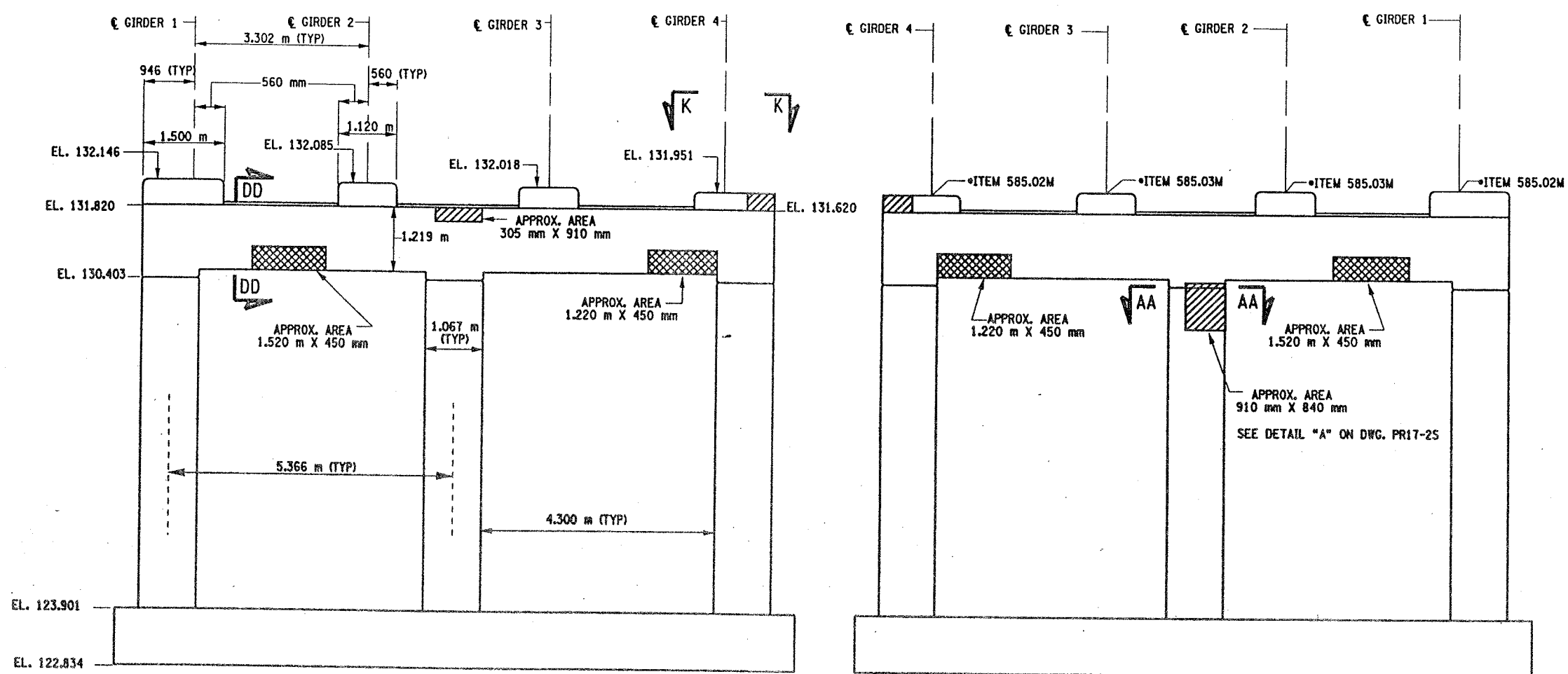
\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

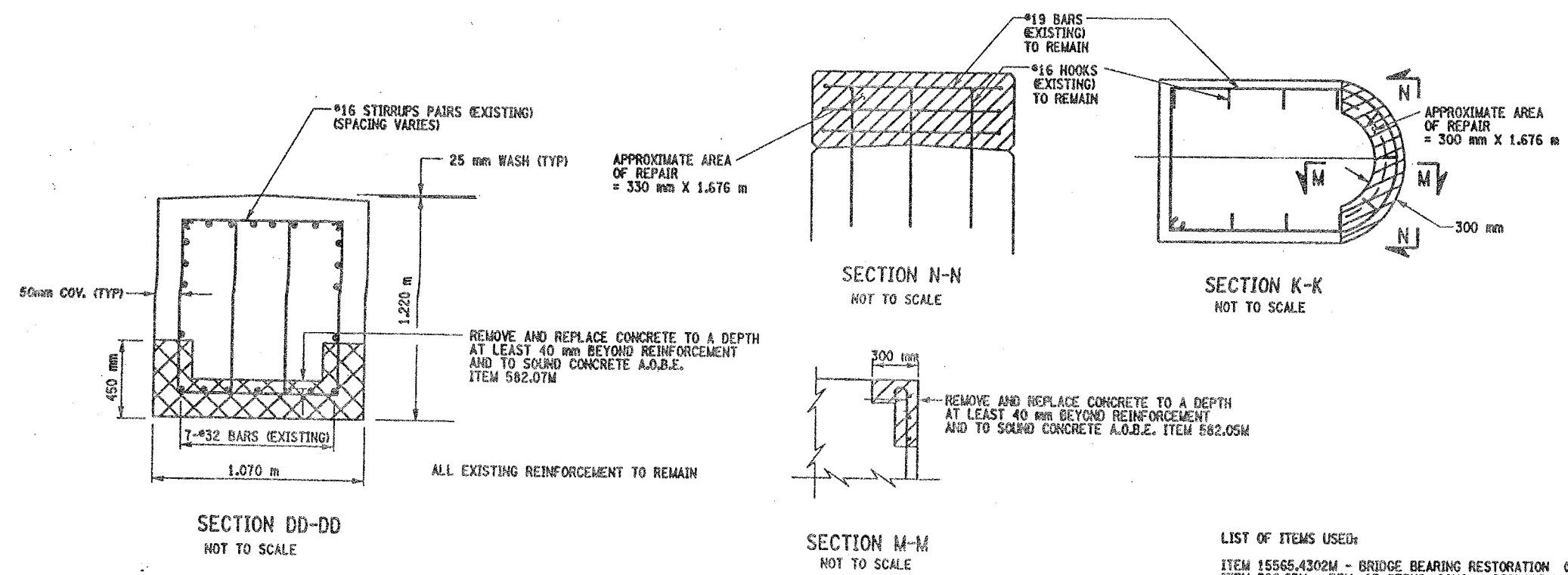
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P10	REGION 3	DATE 10/02	DRAWING NO. PR17-10N



PIER 10 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

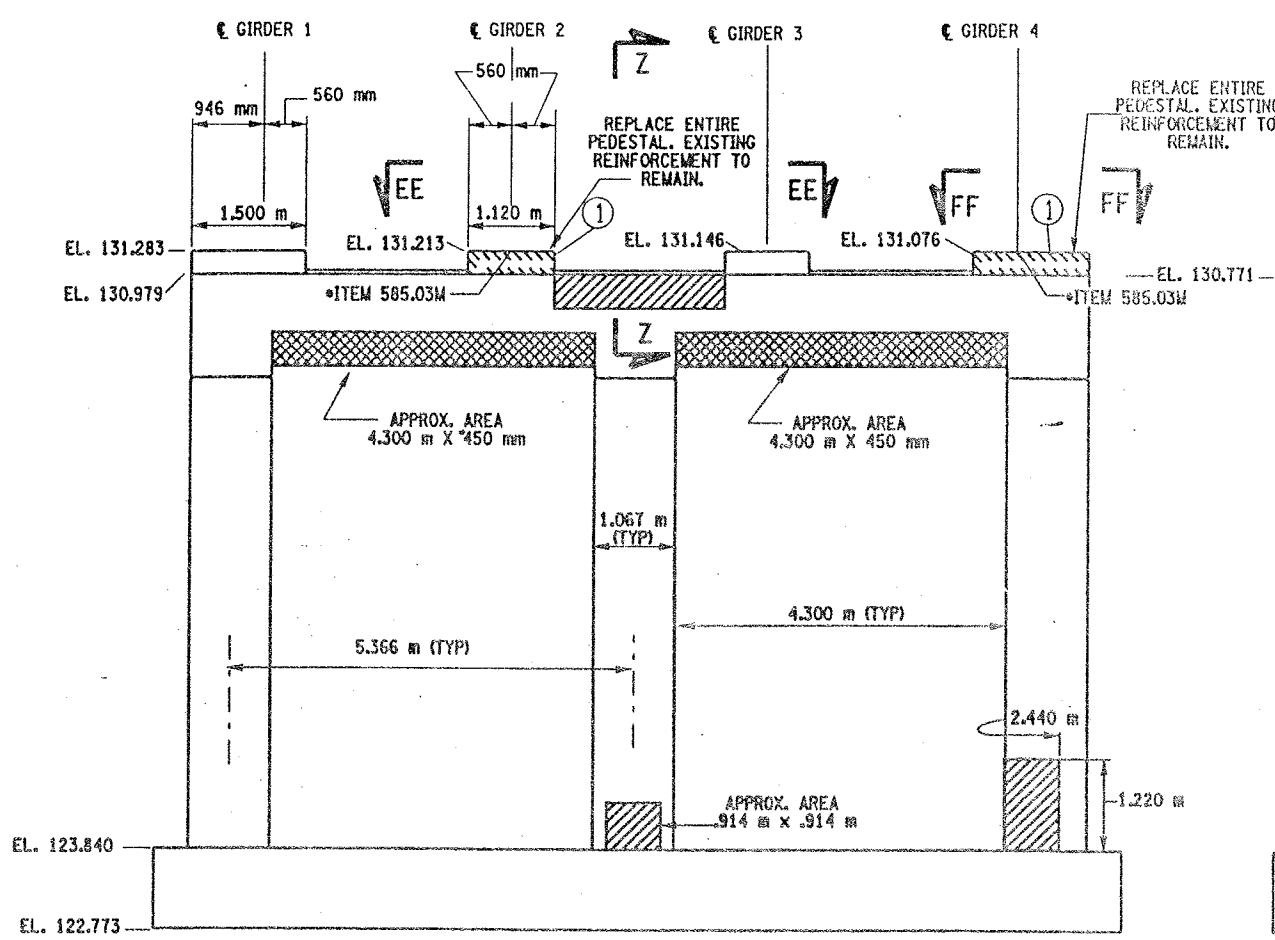
PIER 10 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



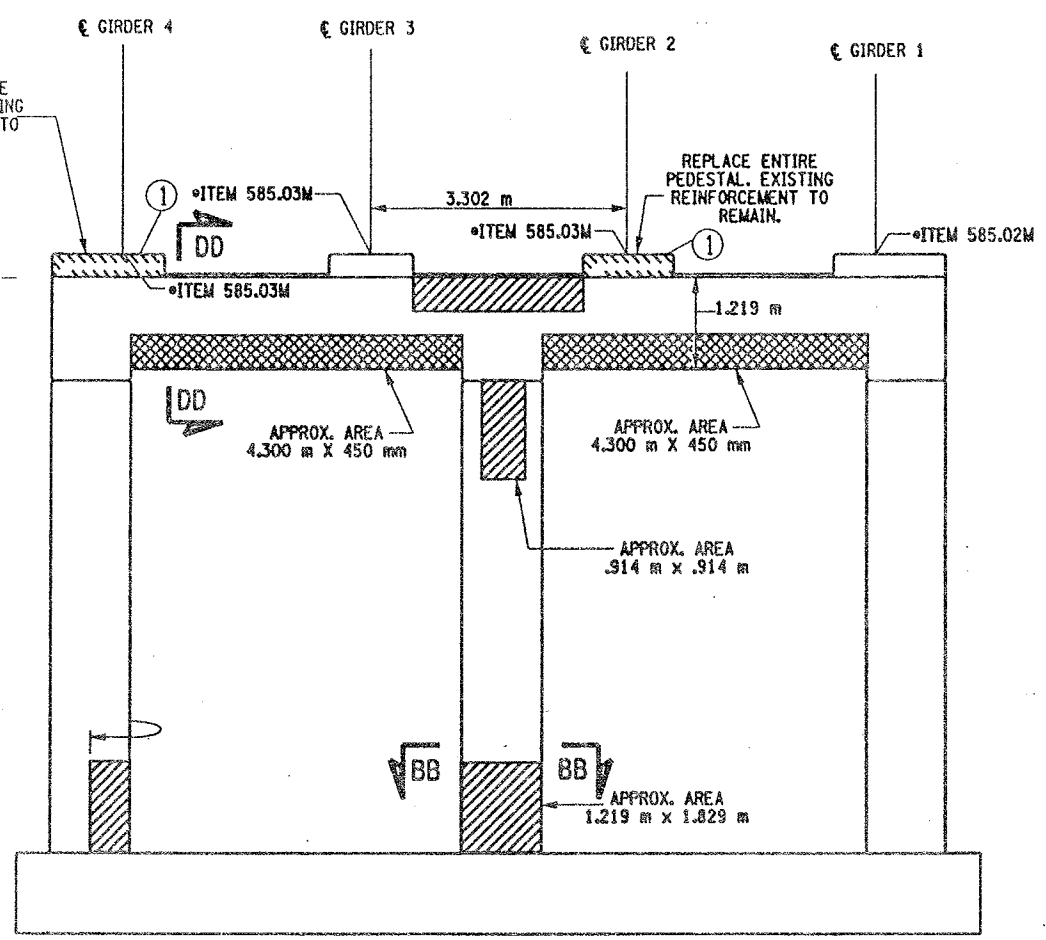
- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (CA)

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	326	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

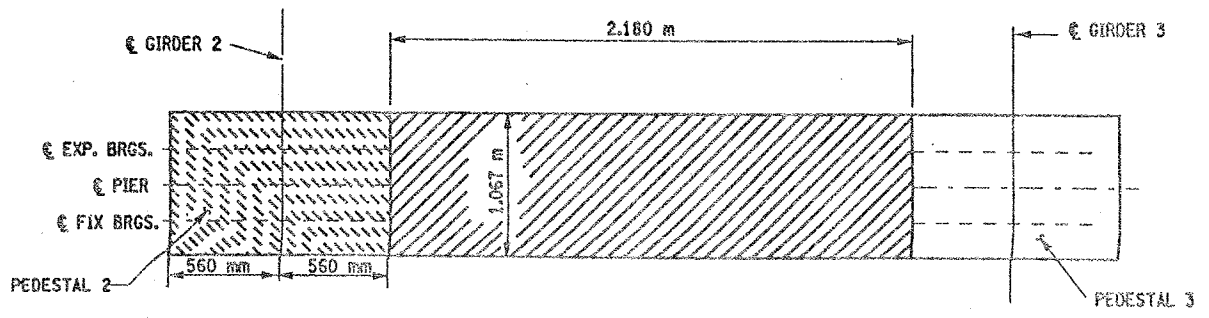


PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

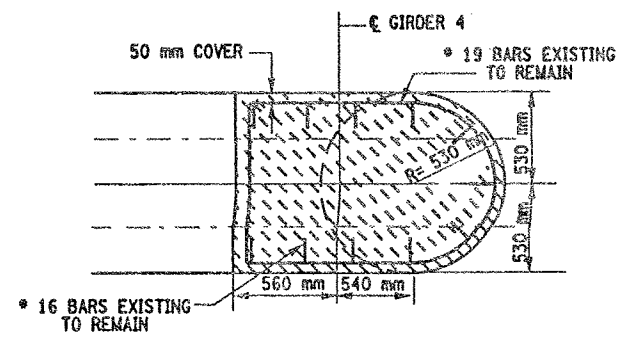


PIER 11- BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

① INDICATES CONCRETE PLACEMENT NUMBER



SECTION EE-EE  
NOT TO SCALE



SECTION FF-FF  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.80	555.0105M

- LIST OF ITEMS USED
- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
  - ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-12S FOR SECTION BB-BB.
  - SEE DWG. PR17-7N FOR SECTION Z-Z.
  - PEDESTALS 2 AND 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG. PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)
  - ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 11	

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AE.P11	3	10/02	PR17-11N



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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	327	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

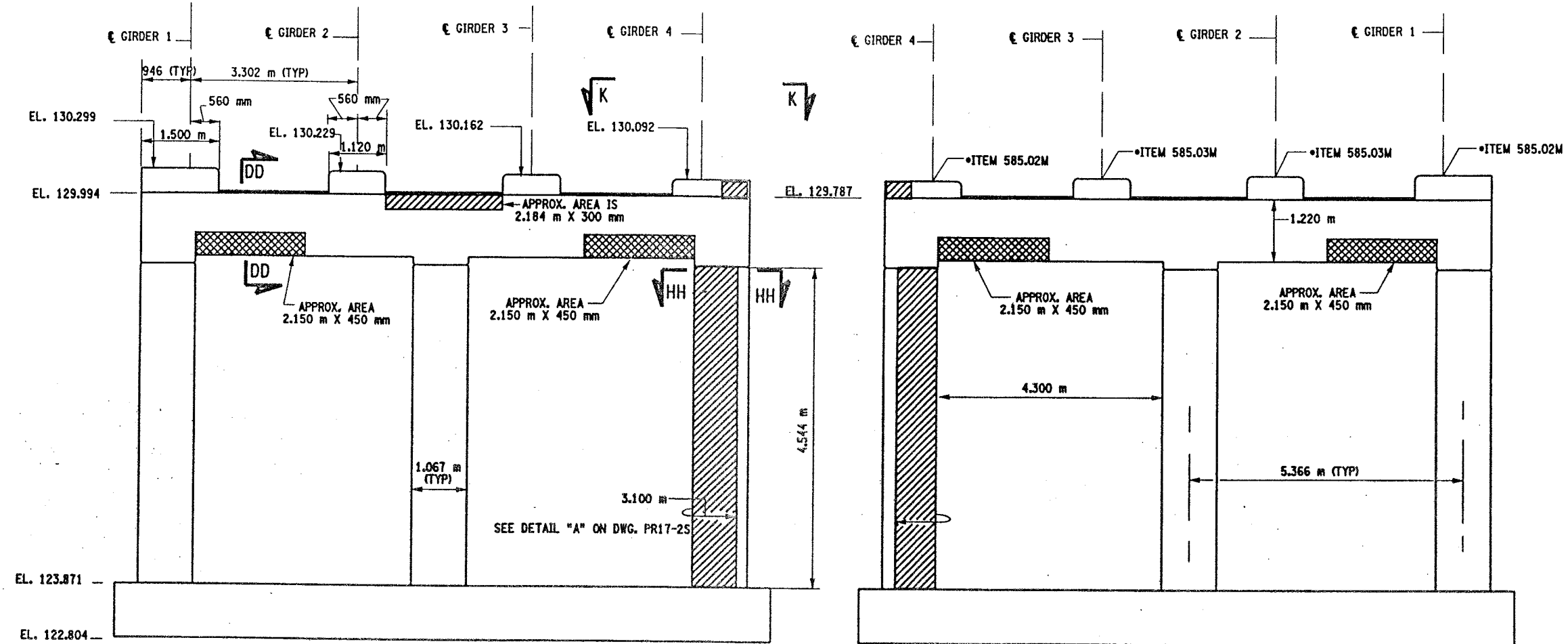
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG PR17-10N FOR SECTION DO-DD.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
<u>SIGNATURE</u>		<u>DATE</u>	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 12			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P12	REGION 3	DATE 10/02	DRAWING NO. PR17-12N

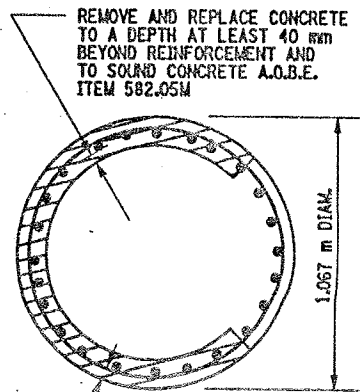


PIER 12 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50

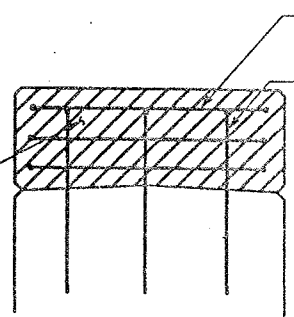
PIER 12 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50

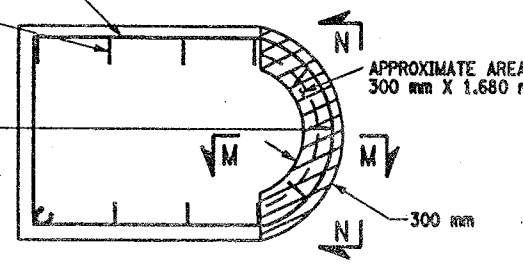


SECTION HH-HH

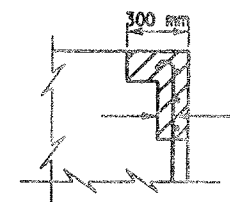
NOT TO SCALE



SECTION N-N  
NOT TO SCALE



SECTION K-K  
NOT TO SCALE



SECTION M-M  
NOT TO SCALE

- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)



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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	329	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-7N FOR SECTION AA-AA.
  - SEE DWG. PR17-13N FOR SECTION KK-KK.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

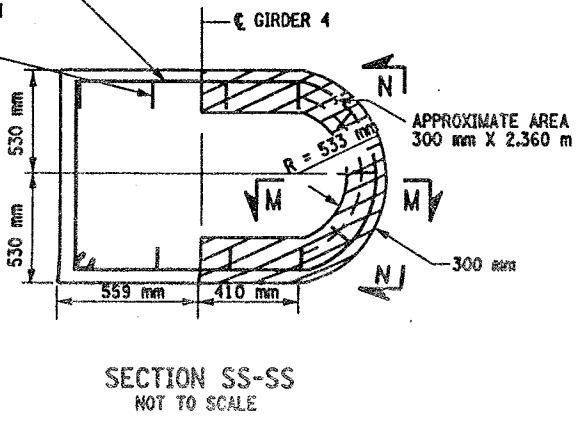
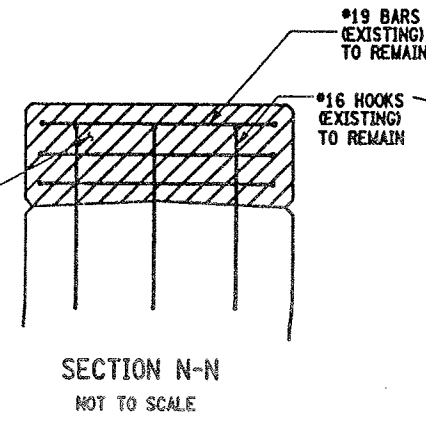
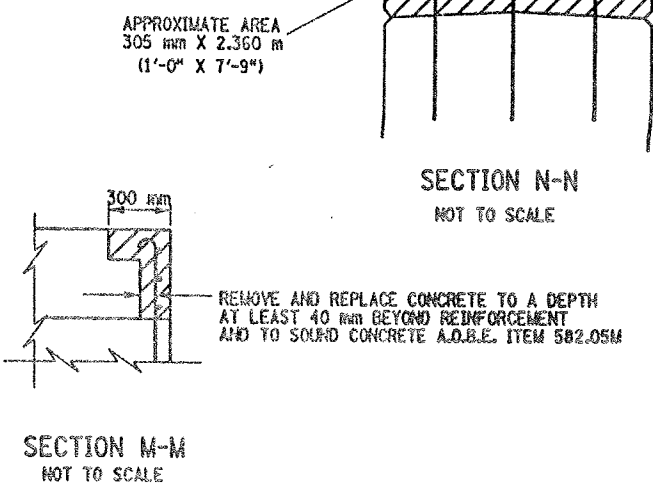
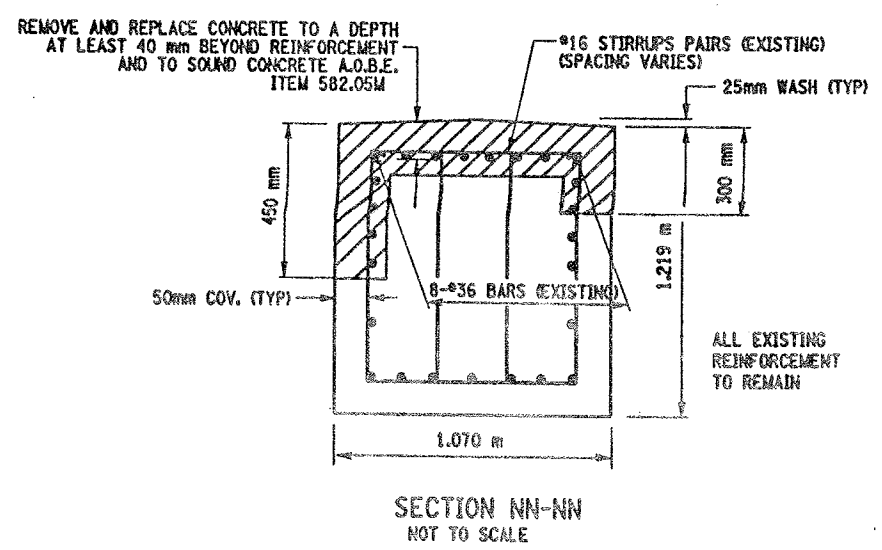
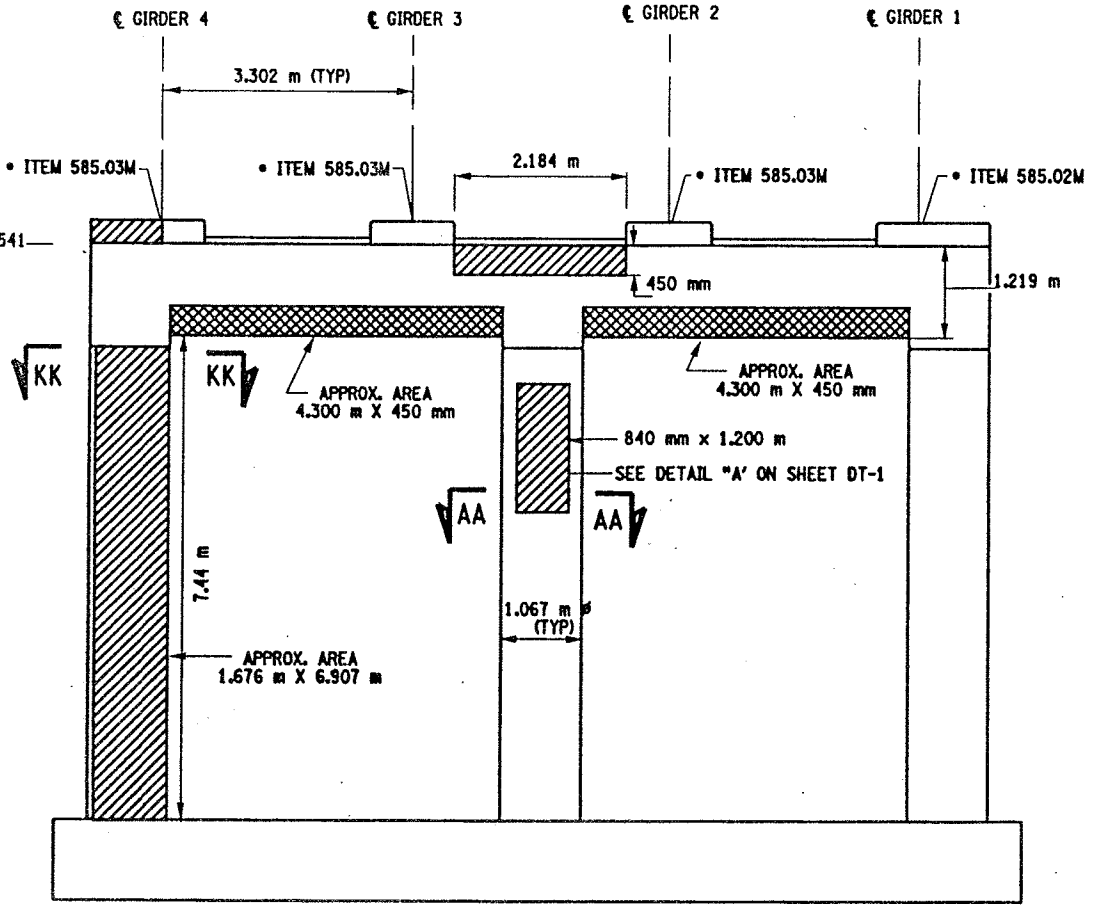
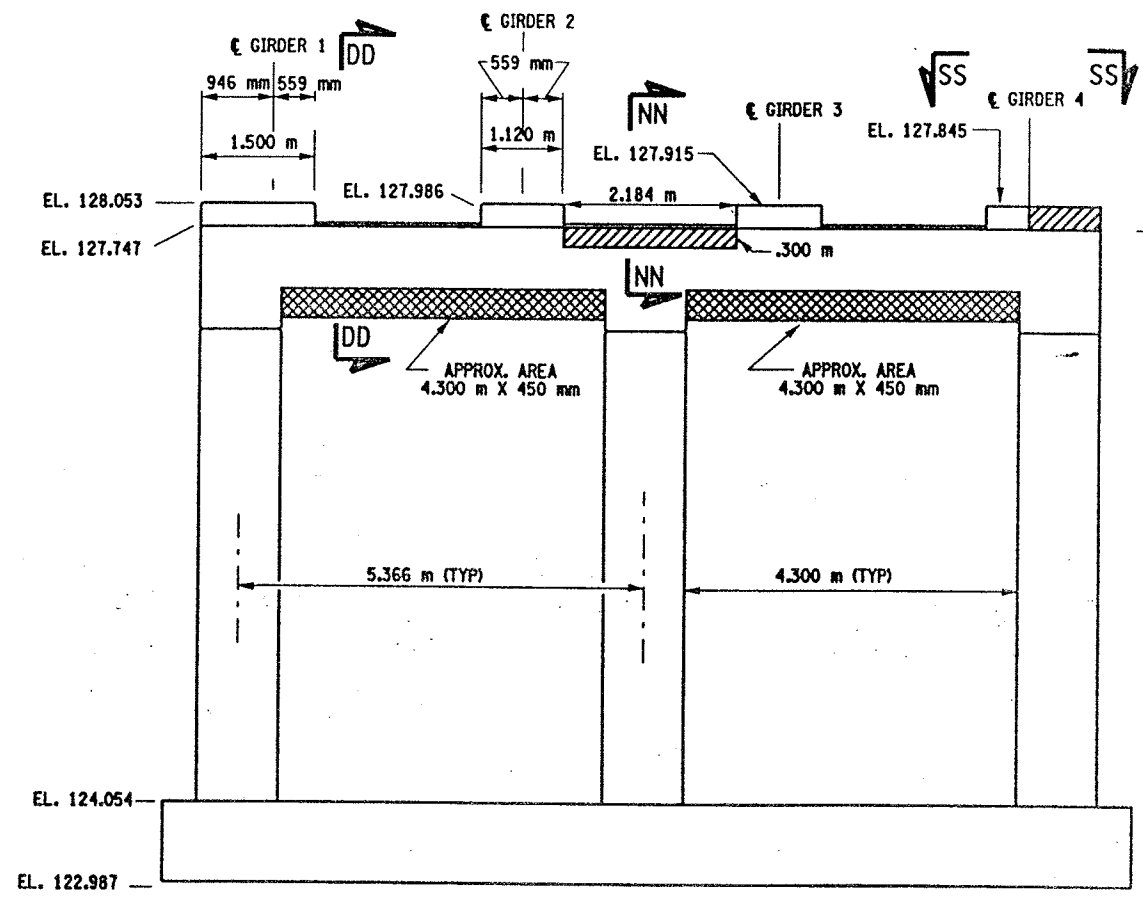
• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 14			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P14	REGION 3	DATE 10/02	DRAWING NO. PR17-14N



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)





CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093571			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+626.288 TO 6+627.588	1.300m		① REPAIR PROCEDURE
6+653.795 TO 6+654.495	.700m		② REPLACE FULL SECTION
6+653.595 TO 6+654.495		.900m	② REPLACE FULL SECTION
SPAN 2 6+654.895 TO 6+655.505	.600m		② REPLACE FULL SECTION
6+654.895 TO 6+655.505		.600m	② REPLACE FULL SECTION
6+654.895 TO 6+664.895	10.000m		① REPAIR PROCEDURE
6+669.995 TO 6+673.695	3.700m		① REPAIR PROCEDURE
SPAN 3 6+731.266 TO 6+735.466	4.200m		① REPAIR PROCEDURE
6+753.266 TO 6+754.266	1.000m		② REPLACE FULL SECTION
6+753.266 TO 6+754.266		1.000m	② REPLACE FULL SECTION
SPAN 4 6+754.666 TO 6+755.666	1.000m		② REPLACE FULL SECTION
6+760.466 TO 6+769.866		9.400m	① REPAIR PROCEDURE
6+760.666 TO 6+778.966	18.300m		① REPAIR PROCEDURE
6+790.116 TO 6+791.616		1.500m	① REPAIR PROCEDURE
6+789.316 TO 6+801.316	12.000m		① REPAIR PROCEDURE
6+794.116 TO 6+803.616		9.500m	② REPLACE FULL SECTION
6+813.616 TO 6+814.616	1.000m		② REPLACE FULL SECTION
6+813.616 TO 6+814.616		1.000m	② REPLACE FULL SECTION
SPAN 5 6+815.016 TO 6+816.016	1.000m		② REPLACE FULL SECTION
6+823.166 TO 6+871.166	48.000m		① REPAIR PROCEDURE
6+870.566 TO 6+874.966	4.000m		② REPLACE FULL SECTION
SPAN 6 6+875.366 TO 6+876.366	1.000m		② REPLACE FULL SECTION
6+875.366 TO 6+895.366		20.000m	② REPLACE FULL SECTION
6+875.317 TO 6+935.317	60.000m		② REPLACE FULL SECTION
6+908.317 TO 6+914.317		6.000m	② REPLACE FULL SECTION
6+920.517 TO 6+928.517		8.000m	② REPLACE FULL SECTION
6+923.317 TO 6+935.317		12.000m	② REPLACE FULL SECTION
SPAN 7 6+935.717 TO 6+947.217	11.500m		② REPLACE FULL SECTION
6+949.917 TO 6+951.417	1.500m		① REPAIR PROCEDURE
6+952.112 TO 6+967.112		15.000m	① REPAIR PROCEDURE
6+967.012 TO 6+969.612	2.600m		① REPAIR PROCEDURE
SPAN 8 6+973.512 TO 7+010.907	37.400m		① REPAIR PROCEDURE
6+981.907 TO 6+990.407		8.500m	① REPAIR PROCEDURE
6+996.907 TO 7+010.907		14.000m	① REPAIR PROCEDURE
SPAN 9 7+011.307 TO 7+048.702		37.400m	① REPAIR PROCEDURE
SPAN 10 7+070.325 TO 7+074.325		4.000m	① REPAIR PROCEDURE
SPAN 11 7+091.825 TO 7+098.825	7.000m		① REPAIR PROCEDURE
7+102.525 TO 7+106.025	3.500m		① REPAIR PROCEDURE
7+100.325 TO 7+108.325		8.000m	① REPAIR PROCEDURE
7+109.325 TO 7+110.825	1.500m		① REPAIR PROCEDURE
7+112.725 TO 7+128.725		16.000m	① REPAIR PROCEDURE
7+114.825 TO 7+117.825	3.000m		① REPAIR PROCEDURE
SPAN 12 7+129.125 TO 7+166.825		37.700m	① REPAIR PROCEDURE
7+131.925 TO 7+137.925	6.000m		① REPAIR PROCEDURE
7+158.025 TO 7+159.525	1.500m		① REPAIR PROCEDURE
SPAN 13 7+167.225 TO 7+204.925	37.700m		① REPAIR PROCEDURE
7+172.225 TO 7+184.225		12.000m	① REPAIR PROCEDURE
7+189.925 TO 7+204.925		15.000m	① REPAIR PROCEDURE
SPAN 14 7+205.325 TO 7+243.025	37.700m		① REPAIR PROCEDURE
7+205.325 TO 7+243.025		37.700m	① REPAIR PROCEDURE
SPAN 15 7+243.425 TO 7+281.530		38.100m	① REPAIR PROCEDURE
7+248.530 TO 7+254.330	5.800m		① REPAIR PROCEDURE
7+257.430 TO 7+262.030	4.600m		① REPAIR PROCEDURE
7+265.030 TO 7+266.530	1.500m		① REPAIR PROCEDURE
7+268.230 TO 7+271.730	3.500m		① REPAIR PROCEDURE

FULL SECTION REPLACEMENT AS DIRECTED BY ENGINEER TO INCLUDE IF NECESSITY, REPLACEMENT OR REPAIR OF THE GRANITE CURB. ALL COST TO BE INCLUDED IN BID PRICE FOR ITEM 582.05M.

(BACKFACE) INDICATES REPAIR AREA IS ON THE OUTSIDE OR BACKFACE OF PARAPET. CAUTION MUST BE TAKEN WHEN WORKING OVER R.R. TRACKS.

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093572			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+578.084 TO 6+582.084	4.000m		① REPAIR PROCEDURE
6+592.589 TO 6+594.789	2.200m		① REPAIR PROCEDURE
6+593.884 TO 6+600.884		7.000m	① REPAIR PROCEDURE (BACKFACE)
6+597.489 TO 6+599.489	2.000m		① REPAIR PROCEDURE
6+600.581 TO 6+608.297	7.700m		① REPAIR PROCEDURE
6+602.697 TO 6+608.297		5.600m	① REPAIR PROCEDURE (BACKFACE)
SPAN 2 6+608.697 TO 6+620.197		11.500m	① REPAIR PROCEDURE (BACKFACE)
6+639.497 TO 6+641.497		2.000m	① REPAIR PROCEDURE (BACKFACE)
6+646.997 TO 6+653.497		6.500m	① REPAIR PROCEDURE (BACKFACE)
SPAN 3 6+662.597 TO 6+664.597		2.000m	② REPLACE FULL SECTION
6+676.097 TO 6+684.097	8.000m		① REPAIR PROCEDURE
6+697.097 TO 6+698.097	1.000m		① REPAIR PROCEDURE
6+707.070 TO 6+708.070	1.000m		② REPLACE FULL SECTION
6+707.070 TO 6+708.070		1.000m	② REPLACE FULL SECTION
SPAN 4 6+708.470 TO 6+709.470	1.000m		② REPLACE FULL SECTION
6+715.570 TO 6+757.070	41.500m		① REPAIR PROCEDURE
6+719.070 TO 6+728.070		9.000m	① REPAIR PROCEDURE
6+750.420 TO 6+768.420		18.000m	② REPLACE FULL SECTION
6+767.420 TO 6+768.420	1.000m		② REPLACE FULL SECTION
SPAN 5 6+768.820 TO 6+770.320	1.500m		② REPLACE FULL SECTION
6+773.120 TO 6+786.120	13.000m		① REPAIR PROCEDURE
6+778.920 TO 6+783.220		4.300m	① REPAIR PROCEDURE
6+799.620 TO 6+802.120		2.500m	① REPAIR PROCEDURE
6+804.620 TO 6+815.620	11.000m		① REPAIR PROCEDURE
6+826.771 TO 6+828.771		2.000m	② REPLACE FULL SECTION
SPAN 6 6+829.171 TO 6+830.171	1.000m		② REPLACE FULL SECTION
6+829.171 TO 6+830.171		1.000m	② REPLACE FULL SECTION
6+830.171 TO 6+888.771		58.600m	② REPLACE FULL SECTION
6+846.971 TO 6+849.971	3.000m		① REPAIR PROCEDURE
6+855.621 TO 6+889.121	33.500m		① REPAIR PROCEDURE
SPAN 7 6+889.126 TO 6+926.916	37.400m		① REPAIR PROCEDURE
6+892.221 TO 6+897.521		5.300m	① REPAIR PROCEDURE
6+903.321 TO 6+907.621		4.300m	① REPAIR PROCEDURE
6+909.721 TO 6+911.721		2.000m	① REPAIR PROCEDURE
6+916.916 TO 6+926.916		10.000m	① REPAIR PROCEDURE
SPAN 8 6+927.316 TO 6+964.712	37.400m		① REPAIR PROCEDURE
SPAN 9 6+965.112 TO 6+996.112	31.000m		① REPAIR PROCEDURE
SPAN 10 7+014.602 TO 7+023.602		9.000m	② REPLACE FULL SECTION
7+020.302 TO 7+040.302	20.000m		② REPLACE FULL SECTION
SPAN 11 7+044.302 TO 7+046.302		2.000m	① REPAIR PROCEDURE
7+060.397 TO 7+067.697	7.300m		① REPAIR PROCEDURE
SPAN 12 7+099.892 TO 7+101.892	2.000m		① REPAIR PROCEDURE
SPAN 13 7+119.492 TO 7+125.492		6.000m	① REPAIR PROCEDURE
7+168.283 TO 7+186.283		18.000m	① REPAIR PROCEDURE
7+168.983 TO 7+191.483	22.500m		① REPAIR PROCEDURE
SPAN 14 7+171.093 TO 7+191.483	20.400m		① REPAIR PROCEDURE
7+165.783 TO 7+179.283		13.500m	① REPAIR PROCEDURE
SPAN 15 7+197.883 TO 7+199.883		2.000m	① REPAIR PROCEDURE
7+198.283 TO 7+229.683	31.400m		① REPAIR PROCEDURE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	331	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

# GENERAL NOTES:

WORK ADJACENT TO JOINT BLOCK-OUT (200mm) SHALL BE INCLUDED IN THE BRIDGE JOINT REPLACEMENT ITEMS. SEE DRAWING NO. JD-53 FOR JOINT BLOCK-OUT REMOVAL DETAILS.

SOME REPAIRS ARE ON THE BACK FACE OF THE PARAPETS. SOME OF THIS WORK MAY BE OVER THE RAIL ROAD TRACKS.

REFER TO DRAWING NO. PW17-1 FOR CONCRETE REMOVAL DETAILS AND NOTES.

STATIONING AND DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER.

REFER TO RECONSTRUCTION NOTES ON DRAWING NO. GN-1.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

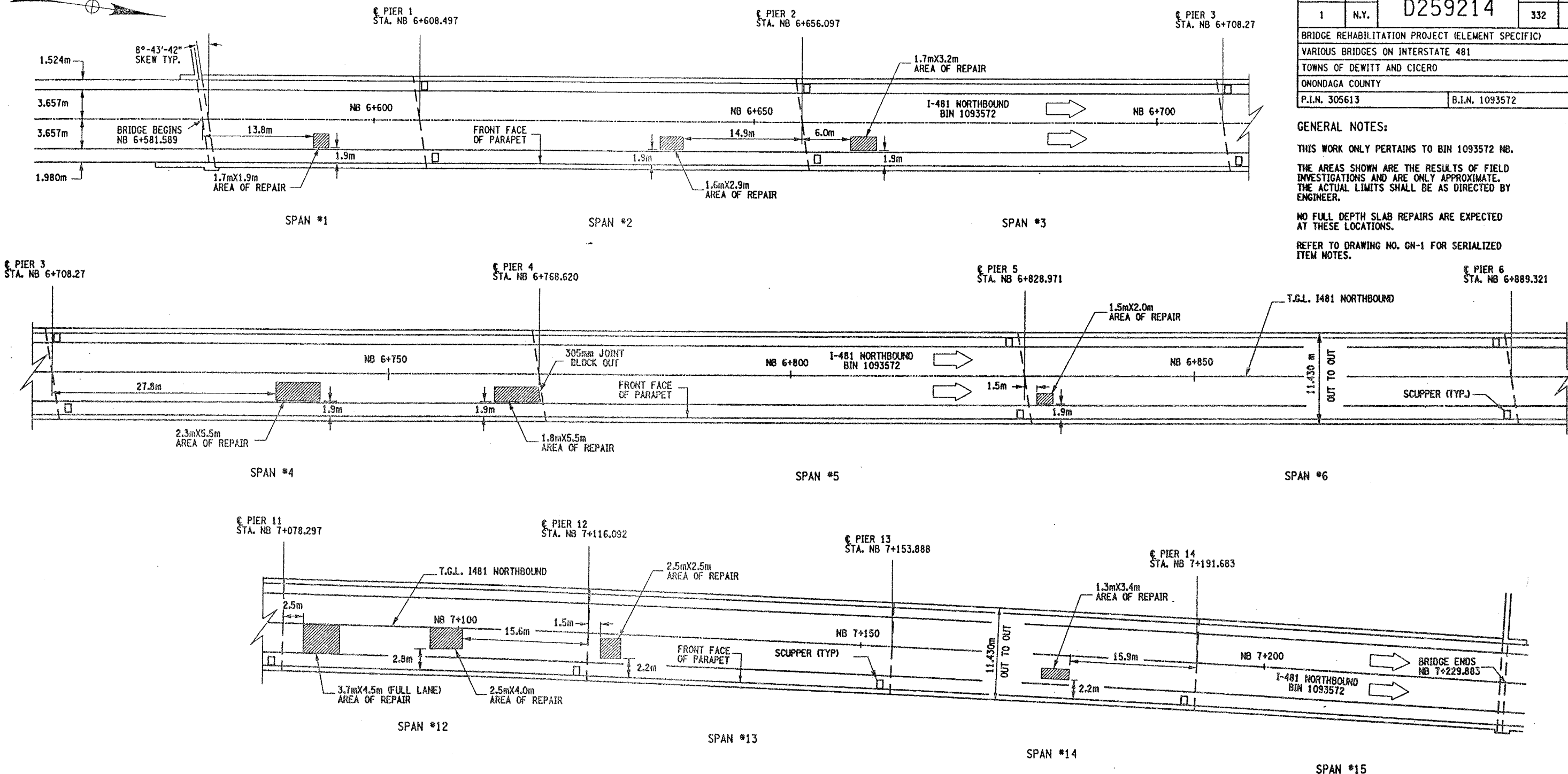
INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF PARAPET REPAIRS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-2

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



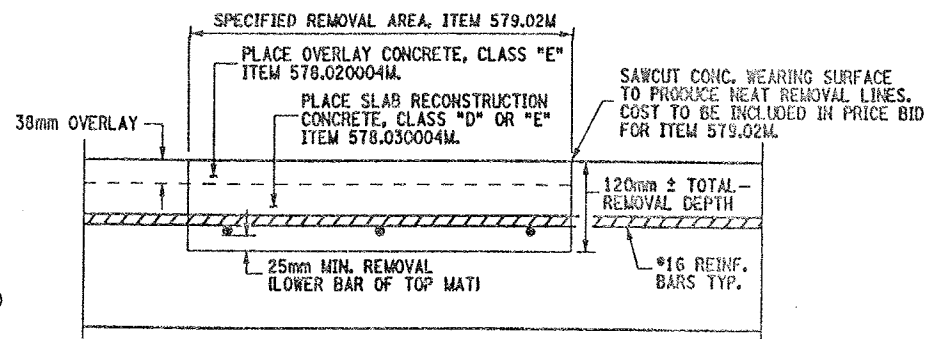
#### REMOVAL NOTES:

ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
A 38mm CONC. OVERLAY HAS BEEN ADDED.

THESE LOCATIONS ARE CURRENTLY FILLED WITH  
ASPHALT (BLACKTOP). DEPTH OF ASPHALT IS  
UNKNOWN, ESTIMATED AT 38mm. THE REMOVAL  
OF THE ASPHALT AND CONCRETE TO LIMITS SHOWN  
TO BE PAID UNDER ITEM 579.02M.

REMOVE CONCRETE TO LIMITS SHOWN AND TO SOUND  
CONCRETE, AS ORDER BY ENGINEER.

ALL AREAS THAT ARE REPAIRED SHALL ALSO RECEIVE  
ITEM 558.01 - TRANSVERSE SAWCUT GROOVING AND  
ITEM 18559.1896M - PROTECTIVE SEALING.



CROSS SECTION VIEW THROUGH REPAIR LOCATION

NOT TO SCALE

#### PLAN VIEW OF SPOT DECK REPAIRS

NOT TO SCALE

#### ITEMS USED:

- ITEM 558.01M - TRANSVERSE SAWCUT GROOVING (SM)
- ITEM 18559.1896M - PROTECTIVE SEALING FOR STRUCT. CONC. (SM)
- ITEM 578.020004M - OVERLAY CONCRETE, CLASS "E" (SM)
- ITEM 578.030004M - SLAB RECONSTRUCTION CONCRETE, CLASS "D" OR "E" (SM)
- ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	332	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

#### GENERAL NOTES:

THIS WORK ONLY PERTAINS TO BIN 1093572 NB.

THE AREAS SHOWN ARE THE RESULTS OF FIELD  
INVESTIGATIONS AND ARE ONLY APPROXIMATE.  
THE ACTUAL LIMITS SHALL BE AS DIRECTED BY  
ENGINEER.

NO FULL DEPTH SLAB REPAIRS ARE EXPECTED  
AT THESE LOCATIONS.

REFER TO DRAWING NO. GN-1 FOR SERIALIZED  
ITEM NOTES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
BRIDGE DECK REPAIRS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	DR17-1



CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	325	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - FOR SECTION AA-AA SEE DWG. PR17-7N.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

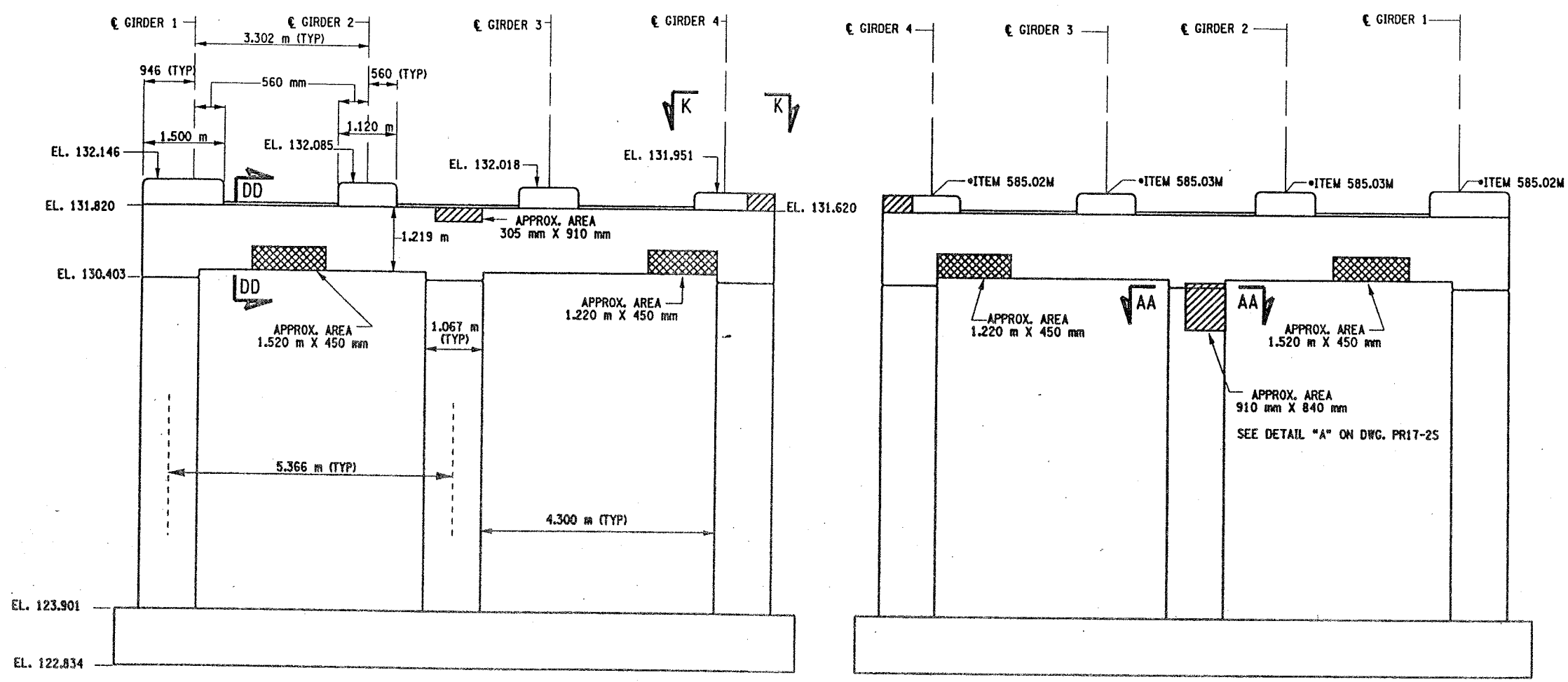
\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B LIFTING AT A PIER OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL (SM)

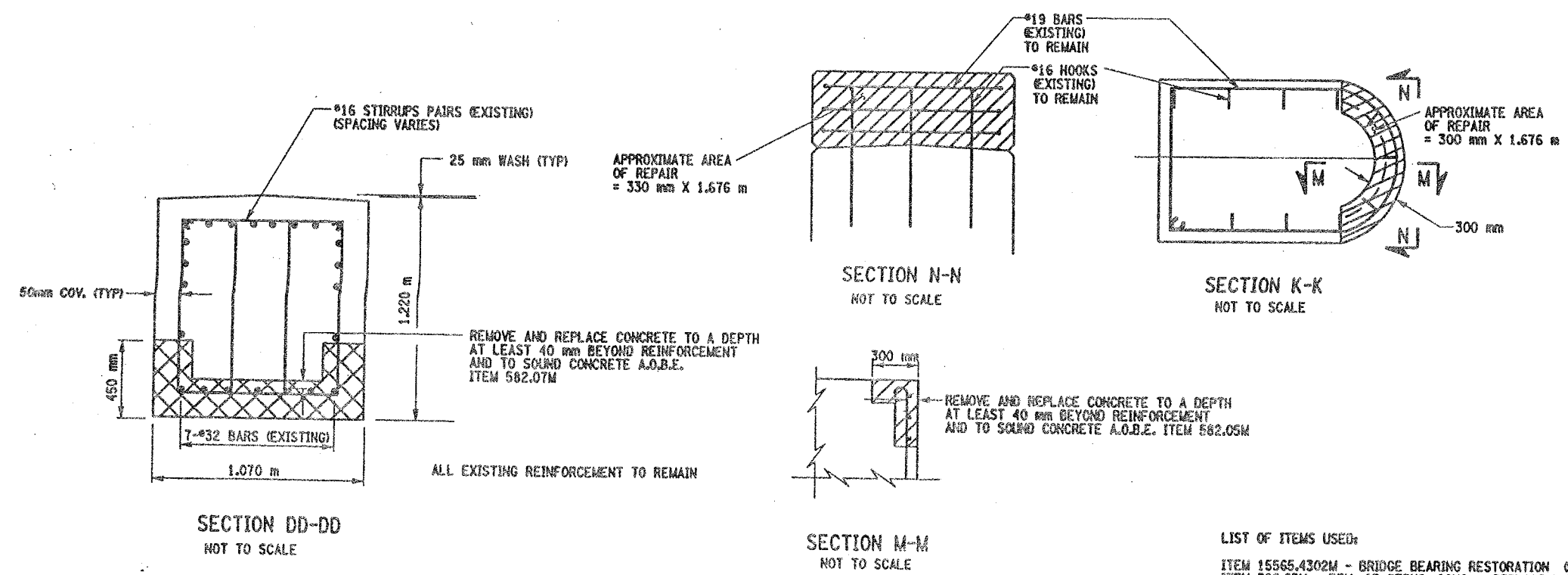
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 10			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P10	REGION 3	DATE 10/02	DRAWING NO. PR17-10N



PIER 10 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

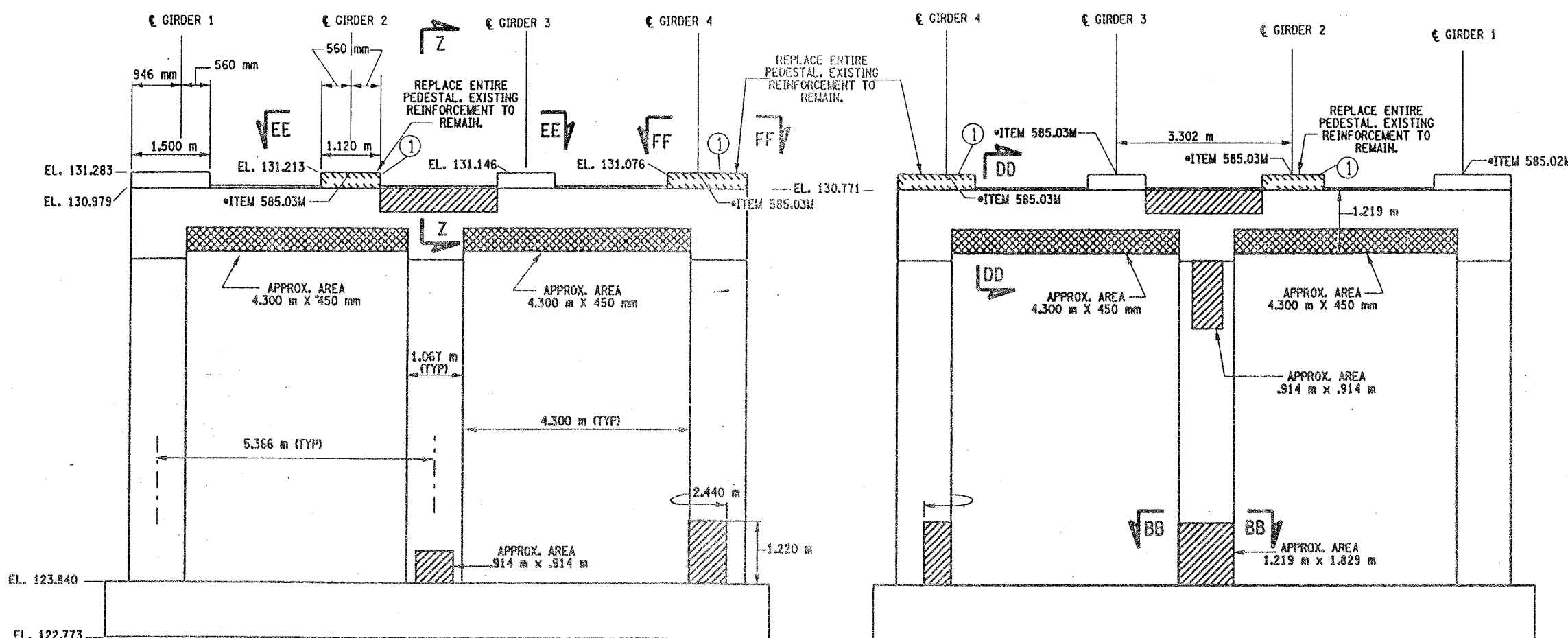
PIER 10 - BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (CA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (CA)

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	326	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	



PIER 11 - FRONT FACE (LOOKING NORTH)  
BIN 1093572  
SCALE: 1 TO 50

PIER 11- BACK FACE (LOOKING SOUTH)  
BIN 1093572  
SCALE: 1 TO 50

- NOTES:
1. ALL REINFORCEMENT TO REMAIN.
  2. RESTORE TO ORIGINAL DIMENSIONS.
  3. PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  4. FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  5. ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. TO-7 AND ARE FOR REFERENCE ONLY.
  6. REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  7. PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  8. SEE DWG. PR17-10N FOR SECTION DD-DD.
  9. SEE DWG. PR17-12S FOR SECTION BB-BB.
  10. SEE DWG. PR17-7N FOR SECTION Z-Z.
  11. PEDESTALS 2 AND 4 SHALL BE REPLACED TO EXISTING DIMENSIONS, ITEM 555.0105 M.
  12. ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  13. FOR JACKING NOTES SEE DWG. PR17-1S.

\* PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

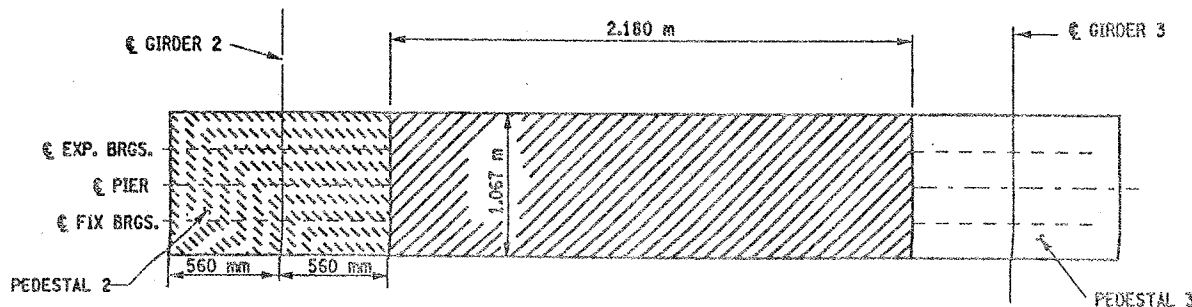
JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)
  - ITEM 580.01 M - REMOVAL OF STRUCTURAL CONCRETE. (CM) AND ITEM 555.0105 M - CONCRETE FOR STRUCTURES CLASS A. (CM)

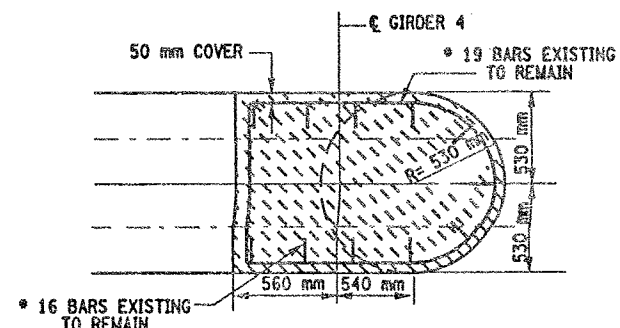
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 11	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AE.P11	REGION 3
DATE 10/02	DRAWING NO. PR17-11N



SECTION EE-EE  
NOT TO SCALE



SECTION FF-FF  
NOT TO SCALE

CONCRETE TABLE (m³)		
PLACEMENT	QUANTITY	ITEM NO.
1	0.80	555.0105M

- LIST OF ITEMS USED
- ITEM 555.0105M - CONCRETE FOR STRUCTURES, CLASS A (CM)
  - ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 580.01M - REMOVAL OF STRUCTURAL CONCRETE (CM)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
		D259214	327	432
1	N.Y.			
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093572	

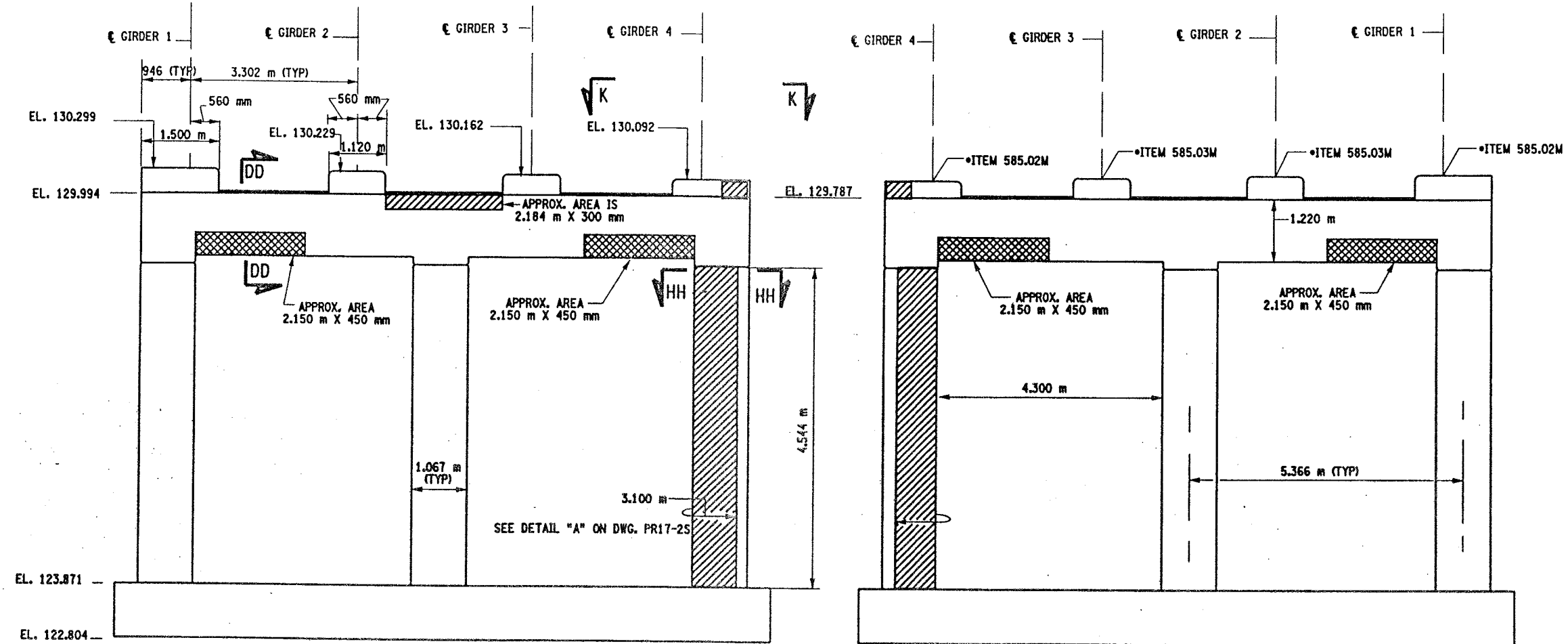
- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
  - REMOVAL DIMENSIONS SHOWN ON PLANS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING OF REMOVAL OPERATIONS A.O.B.E.
  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTING OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-15 FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG PR17-10N FOR SECTION DO-DD.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL.

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

- LEGEND:
- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)
  - ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVERHEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED			
<u>AS BUILT REVISIONS</u>			
<u>SIGNATURE</u>		<u>DATE</u>	
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 12			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P12	REGION 3	DATE 10/02	DRAWING NO. PR17-12N

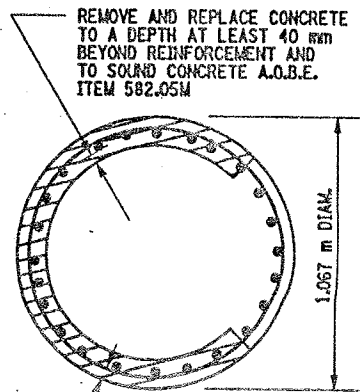


PIER 12 - FRONT FACE (LOOKING NORTH)

BIN 1093572  
SCALE: 1 TO 50

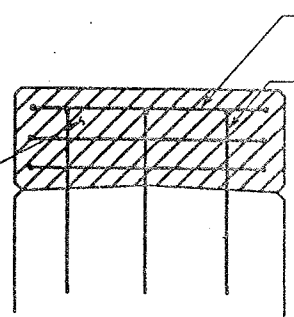
PIER 12 - BACK FACE (LOOKING SOUTH)

BIN 1093572  
SCALE: 1 TO 50



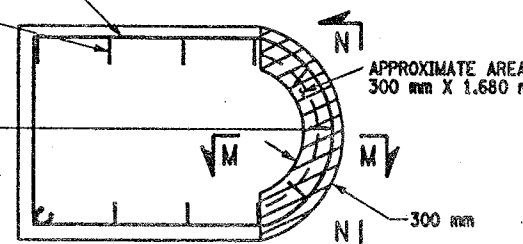
SECTION HH-HH

NOT TO SCALE



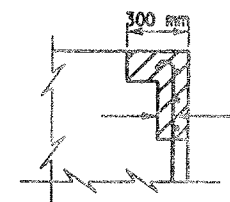
SECTION N-N

NOT TO SCALE



SECTION K-K

NOT TO SCALE



SECTION M-M

NOT TO SCALE

LIST OF ITEMS USED:

- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
- ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
- ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
- ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
- ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)





CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	329	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

- NOTES:
- ALL REINFORCEMENT TO REMAIN.
  - RESTORE TO ORIGINAL DIMENSIONS.
  - PEDESTALS NUMERICALLY NUMBERED FROM WEST TO EAST.
  - FOR THE CONCRETE REPAIR AREAS, THE CONCRETE SHALL BE REMOVED TO AT LEAST 40mm MIN. BEYOND THE ENCOUNTERED REINFORCEMENT AND TO SOUND CONCRETE, A.O.B.E.
  - ELEVATIONS SHOWN ARE FROM ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 AND ARE FOR REFERENCE ONLY.
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  - PERFORM BEARING RESTORATION TO ALL EXPANSION BEARINGS (TO INCLUDE RESETTling OF UNDEREXTENDED OR OVEREXTENDED BEARINGS). SEE DWG. PR17-1S FOR BEARING RESTORATION NOTES. SEE DWG. BR-10 & BR-11 FOR BEARING RESTORATION DETAILS.
  - SEE DWG. PR17-10N FOR SECTION DD-DD.
  - SEE DWG. PR17-7N FOR SECTION AA-AA.
  - SEE DWG. PR17-13N FOR SECTION KK-KK.
  - ALL CONCRETE REMOVAL SHALL BE SAWCUT TO PRODUCE NEAT REMOVAL LINES. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM 582.05M AND ITEM 582.07M.
  - FOR JACKING NOTES SEE DWG PR17-1S.

• PERFORM STRUCTURAL LIFTING UNDER ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (LIFTING AT A PIER) OR ITEM 585.03M - STRUCTURAL LIFTING OPERATIONS - TYPE C (LIFTING AT A PIER WHERE THE CONTRACTOR SHALL BE REQUIRED TO LIFT OFF THE FOOTING AND/OR GROUND LEVEL).

JACKING LOADS:  
D.L. = 75 MT  
L.L. = 50 MT  
TOTAL = 125 MT

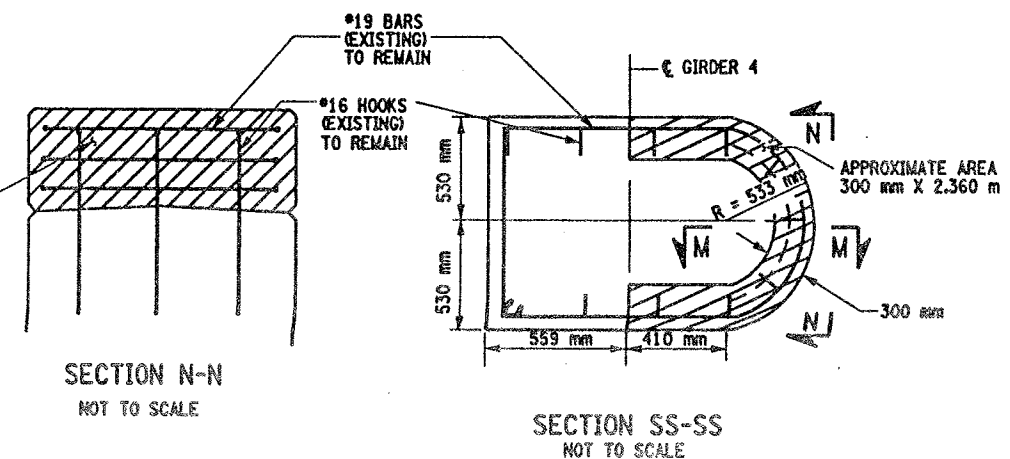
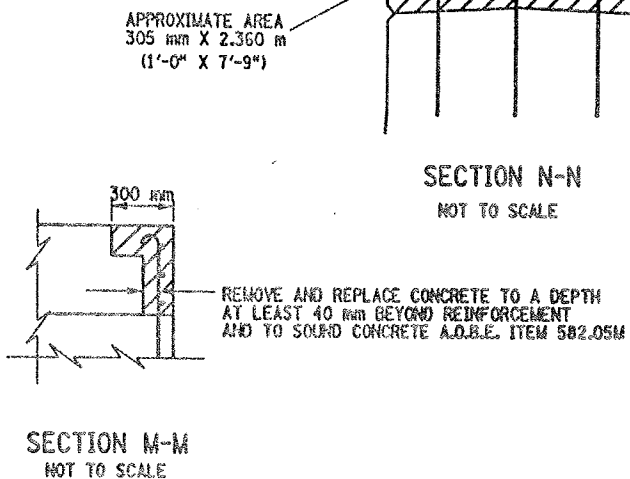
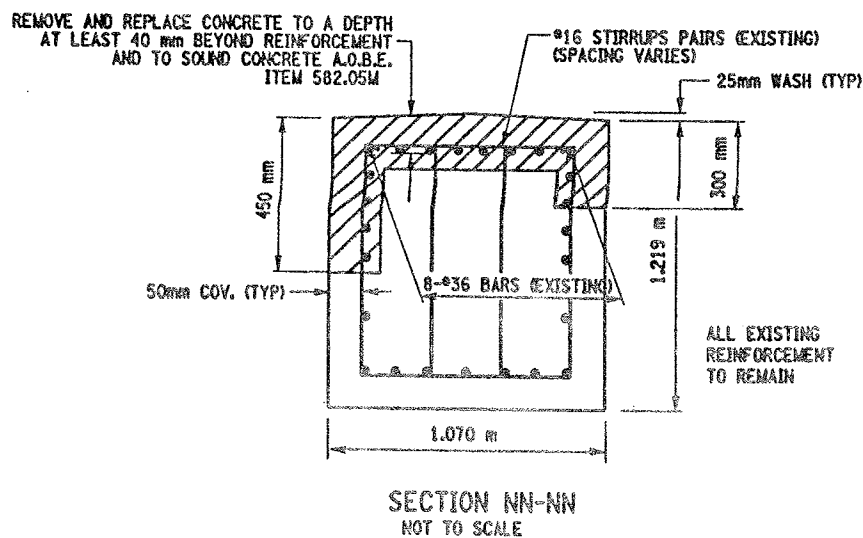
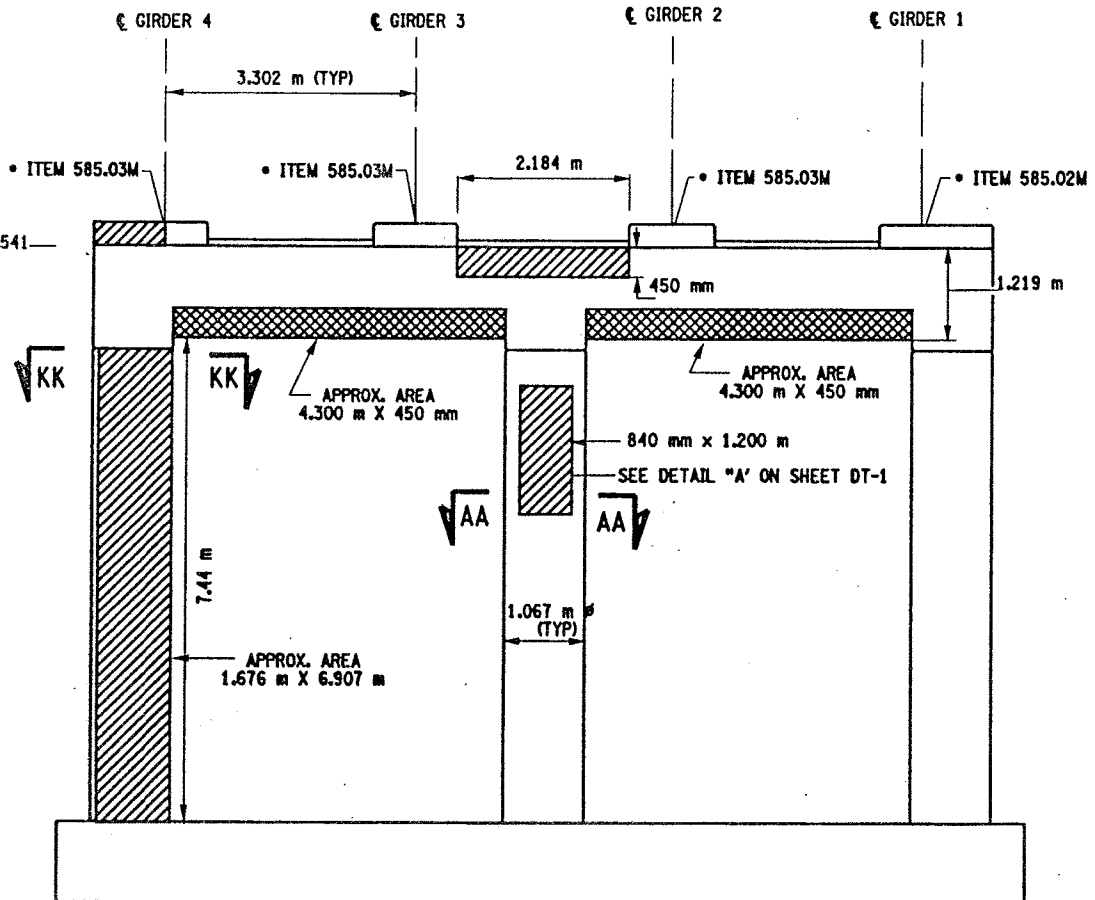
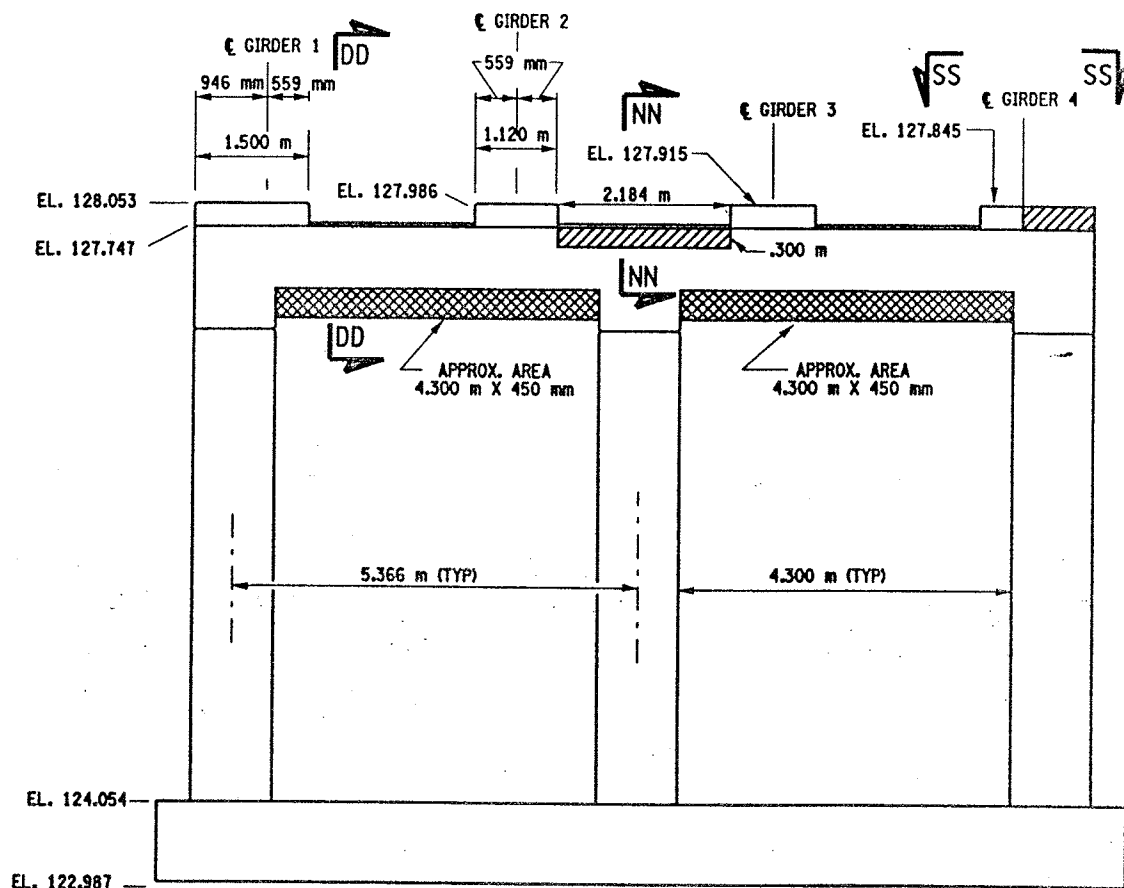
LEGEND:

ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH CLASS A CONCRETE. (CM)

ITEM 582.07M - REMOVAL OF STRUCTURAL CONCRETE - REPLACE WITH VERTICAL OVER-HEAD PATCH MATERIAL. (SM)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 NB OVER CSX RAILROAD YARD PIER 14			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.P14	REGION 3	DATE 10/02	DRAWING NO. PR17-14N



- LIST OF ITEMS USED:
- ITEM 15565.4302M - BRIDGE BEARING RESTORATION (EA)
  - ITEM 582.05M - REM. OF STRUC. CONC. - REPLACE WITH CLASS A CONCRETE (CM)
  - ITEM 582.07M - REM. OF STRUC. CONC. - REPL. W/ VERT. OVERHEAD PATCH MAT'L (SM)
  - ITEM 585.02M - STRUCTURAL LIFTING OPERATIONS - TYPE B (EA)
  - ITEM 585.03M - STRUCTURAL LIFTING OPERATION - TYPE C (EA)

CHECKED BY

DRAFTED BY

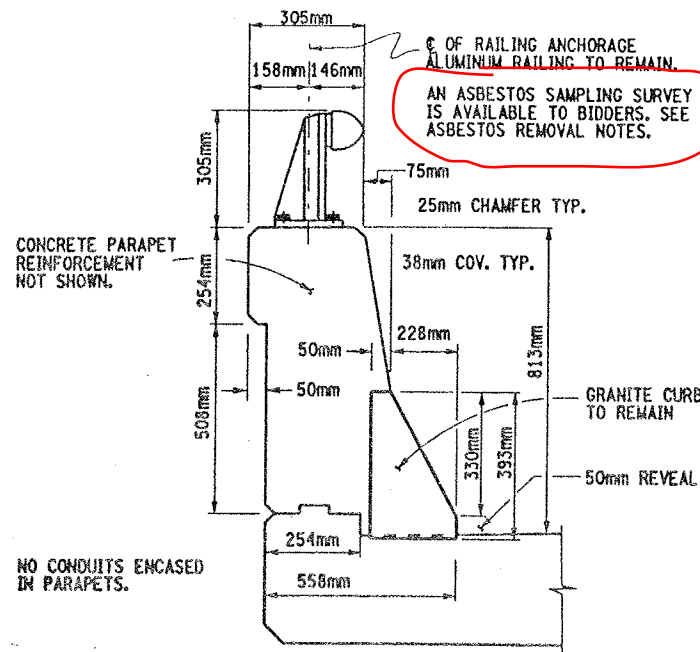
ESTIMATED BY

CHECKED BY

DESIGNED BY

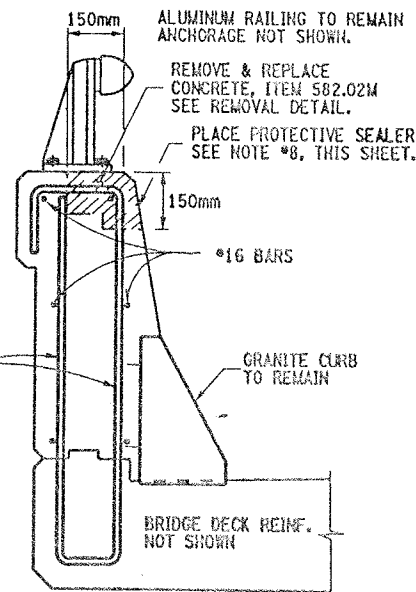
JOB MANAGER

DESIGN SUPERVISOR



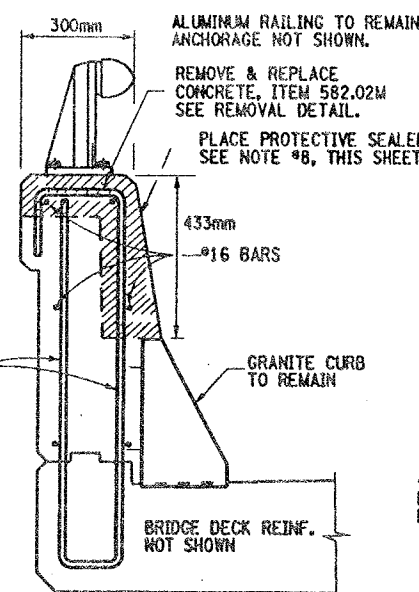
TYPICAL SECTION THRU SUPERSTRUCTURE  
PARAPET CONCRETE DETAILS

NOT TO SCALE



① REPAIR DETAILS  
150mmX150mm TOP

NOT TO SCALE



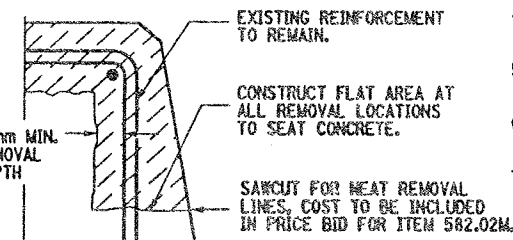
② REPAIR DETAILS  
FULL TOP & FRONT FACE

NOT TO SCALE

CONCRETE REMOVAL NOTES:

REMOVE ALL DETERIORATED CONCRETE TO SOUND CONCRETE AND AT LEAST 40mm BEYOND ENCOUNTERED REINFORCEMENT BARS, ABOVE. PAYMENT TO BE PAID UNDER ITEM 582.05M.

CONCRETE REMOVAL, SAWCUT 6mm DEPTH MINIMUM TO PRODUCE NEAT REMOVAL LINES, ALL COSTS SHALL BE INCLUDED IN PRICE BID FOR ITEM 582.05M.



TYPICAL REMOVAL DETAIL

NOT TO SCALE

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	330	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093571 & 1093572

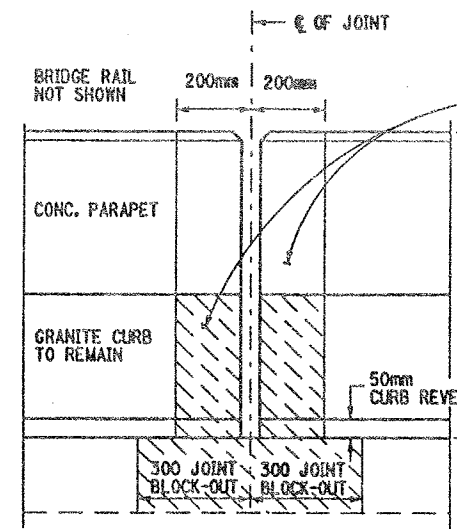
CONCRETE PARAPET REPAIR NOTES:

1. ALUMINUM RAILING TO REMAIN, ANCHORAGE NOT SHOWN.
2. EXISTING PARAPET REINFORCEMENT TO REMAIN.
3. GRANITE CURB TO REMAIN, ANCHOR BARS NOT SHOWN.
4. REMOVAL OF CONCRETE TO LIMITS SHOWN, ABOVE. SEE TYPICAL REMOVAL DETAIL, THIS SHEET.
5. ALL DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
6. CONTRACTOR SHALL RESTORE CONCRETE PARAPET TO ORIGINAL DIMENSIONS.
7. IT IS DESIRABLE TO RETAIN ALL EXISTING GRANITE CURB, BUT AT SOME LOCATIONS ADJACENT TO THE JOINT BLOCK-OUTS IT MAY BE NECESSARY TO REPLACE OR REPAIR THE SECTION OF CURB, TO THE SATISFACTION OF THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR ITEM 582.05M.
8. AFTER PARAPET REPAIRS ARE COMPLETED AND SUFFICIENT CURE TIME AS DECIDED BY ENGINEER, APPLY A COATING TYPE PROTECTIVE SEALERS WHICH MEETS MATERIAL SPECIFICATION 717-04. THIS PROTECTIVE SEALER SHALL BE APPLIED TO THE FRONT FACE AND TOP OF ALL PARAPETS (REPAIRED AREAS & ORIGINAL AREAS) TO ENSURE A UNIFORMED APPEARANCE. COST OF THIS SEALER TO BE INCLUDED IN PRICE BID FOR ITEM 18559.1696 M.

THE CONCRETE REMOVAL & REPLACEMENT AT THE JOINT BLOCK-OUT AREA SHALL BE PAID FOR UNDER THE JOINT REPLACEMENT ITEMS.  
REFER TO DRAWING NO. JD-53 FOR JOINT BLOCK-OUT DETAILS.

613mm HEIGHT OF PARAPET

50mm CURB REVEAL



FRONT FACE PARAPET CONCRETE DETAIL  
SHOWS TYPICAL CONC. REMOVAL AT JOINT

NOT TO SCALE

ASBESTOS MATERIAL REMOVAL NOTES:

THE REMOVAL OF ALL ASBESTOS CONTAINING CAULK (ITEM 210.5433M) SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY PARAPET REPAIR WORK.

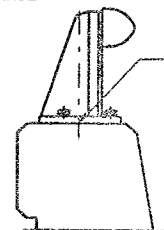
THIS REMOVAL OF THE ASBESTOS CAULK SHALL BE PERFORMED AT EACH BRIDGE RAIL BASE PLATE ON BOTH N.B. & S.B. BRIDGES. REMOVE ASBESTOS CAULKING AT ALL RAIL BASE PLATES BOTH BRIDGES.

AFTER COMPLETION OF THE PARAPET REPAIRS INSTALL A CAULKING COMPOUND AROUND THE BASE PLATES OF THE RAILING WHICH MEETS MATERIAL SPEC. 705-06 AND IS ACCEPTABLE TO THE ENGINEER. PAID UNDER ITEM 210.5433M.

REFER TO ORIGINAL CONTRACT PLANS F.I.S.H. 70-7 FOR RAIL LAY-OUT DETAILS.

OF RAILING ANCHORAGE

BASE PLATES  
190mm X 168mm



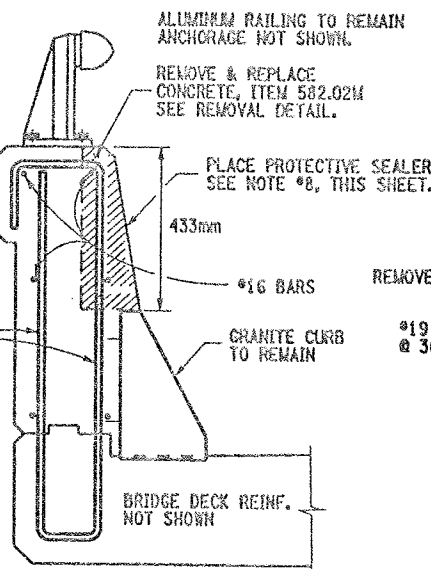
TYPICAL BRIDGE RAIL DETAIL

NOT TO SCALE

REMOVE EXISTING GRAY ASBESTOS CAULKING COMPOUND AT THE ALUMINUM RAILING BASE PLATES. IT IS ASSUMED THAT THE CAULK COMPOUND IS SURROUNDING (PERIMETER) THE RAILING BASE PLATES. THIS PERIMETER REMOVAL OPERATION SHALL BE PERFORMED AT EACH RAILING BASE PLATE ON BOTH STRUCTURES.

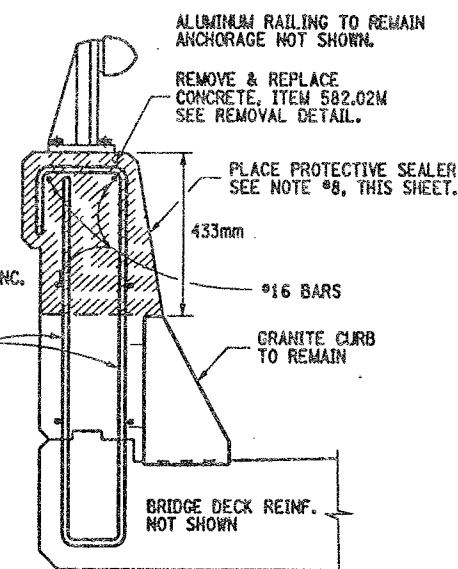
HOWEVER, SOME CAULK MATERIAL MAY BE FOUND UNDER THE RAILING BASE PLATES. THIS CAULKING COMPOUND UNDER THE BASE PLATES SHALL BE REMOVED ONLY AT LOCATIONS WHERE THE PARAPET CONCRETE REPAIRS WILL DISTURB THE MATERIAL (REMOVAL AS ENCOUNTERED).

ALL COSTS TO BE PAID UNDER ITEM 210.5433M. SEE ASBESTOS MATERIAL REMOVAL NOTES, THIS SHEET.



④ REPAIR DETAILS  
FRONT FACE

NOT TO SCALE



⑤ REPAIR DETAILS  
FULL SECTION

NOT TO SCALE

ITEMS USED:

- ITEM 582.05M - REMOVAL OF STRUCTURAL CONCRETE, REPLACE WITH CLASS "A" CONCRETE (C&M)
- ITEM 210.5433M - REMOVAL & DISPOSAL OF ASBESTOS CONTAINING CAULK (BY 12) (S.S.)
- ITEM 18559.1696M - PROTECTIVE SEALING OF STRUCTURAL CONCRETE (S&M)

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 OVER CSX RR YARD

PARAPET REPAIR DETAILS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-1



CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093571			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+626.288 TO 6+627.588	1.300m		① REPAIR PROCEDURE
6+653.795 TO 6+654.495	.700m		② REPLACE FULL SECTION
6+653.595 TO 6+654.495		.900m	② REPLACE FULL SECTION
SPAN 2 6+654.895 TO 6+655.505	.600m		② REPLACE FULL SECTION
6+654.895 TO 6+655.505		.600m	② REPLACE FULL SECTION
6+654.895 TO 6+664.895	10.000m		① REPAIR PROCEDURE
6+669.995 TO 6+673.695	3.700m		① REPAIR PROCEDURE
SPAN 3 6+731.266 TO 6+735.466	4.200m		① REPAIR PROCEDURE
6+753.266 TO 6+754.266	1.000m		② REPLACE FULL SECTION
6+753.266 TO 6+754.266		1.000m	② REPLACE FULL SECTION
SPAN 4 6+754.666 TO 6+755.666	1.000m		② REPLACE FULL SECTION
6+760.466 TO 6+769.866		9.400m	① REPAIR PROCEDURE
6+760.666 TO 6+778.966	18.300m		① REPAIR PROCEDURE
6+790.116 TO 6+791.616		1.500m	① REPAIR PROCEDURE
6+789.316 TO 6+801.316	12.000m		① REPAIR PROCEDURE
6+794.116 TO 6+803.616		9.500m	② REPAIR PROCEDURE
6+813.616 TO 6+814.616	1.000m		② REPLACE FULL SECTION
6+813.616 TO 6+814.616		1.000m	② REPLACE FULL SECTION
SPAN 5 6+815.016 TO 6+816.016	1.000m		② REPLACE FULL SECTION
6+823.166 TO 6+871.166	48.000m		① REPAIR PROCEDURE
6+870.566 TO 6+874.966	4.000m		② REPLACE FULL SECTION
SPAN 6 6+875.366 TO 6+876.366	1.000m		② REPLACE FULL SECTION
6+875.366 TO 6+895.366		20.000m	② REPLACE FULL SECTION
6+875.317 TO 6+935.317	60.000m		② REPAIR PROCEDURE
6+908.317 TO 6+914.317		6.000m	② REPAIR PROCEDURE
6+920.517 TO 6+928.517		8.000m	② REPAIR PROCEDURE
6+923.317 TO 6+935.317		12.000m	② REPAIR PROCEDURE
SPAN 7 6+935.717 TO 6+947.217	11.500m		② REPAIR PROCEDURE
6+949.917 TO 6+951.417	1.500m		① REPAIR PROCEDURE
6+952.112 TO 6+967.112		15.000m	② REPAIR PROCEDURE
6+967.012 TO 6+969.612	2.600m		② REPAIR PROCEDURE
SPAN 8 6+973.512 TO 7+010.907	37.400m		① REPAIR PROCEDURE
6+981.907 TO 6+990.407		8.500m	② REPAIR PROCEDURE
6+996.907 TO 7+010.907		14.000m	② REPAIR PROCEDURE
SPAN 9 7+011.307 TO 7+048.702		37.400m	② REPAIR PROCEDURE
SPAN 10 7+070.325 TO 7+074.325		4.000m	② REPAIR PROCEDURE
SPAN 11 7+091.825 TO 7+098.825	7.000m		① REPAIR PROCEDURE
7+102.525 TO 7+106.025	3.500m		① REPAIR PROCEDURE
7+100.325 TO 7+108.325		8.000m	① REPAIR PROCEDURE
7+109.325 TO 7+110.825	1.500m		① REPAIR PROCEDURE
7+112.725 TO 7+128.725		16.000m	① REPAIR PROCEDURE
7+114.825 TO 7+117.825	3.000m		① REPAIR PROCEDURE
SPAN 12 7+129.125 TO 7+166.825		37.700m	② REPAIR PROCEDURE
7+131.925 TO 7+137.925	6.000m		② REPAIR PROCEDURE
7+158.025 TO 7+159.525	1.500m		② REPAIR PROCEDURE
SPAN 13 7+167.225 TO 7+204.925	37.700m		① REPAIR PROCEDURE
7+172.225 TO 7+184.225		12.000m	① REPAIR PROCEDURE
7+189.925 TO 7+204.925		15.000m	① REPAIR PROCEDURE
SPAN 14 7+205.325 TO 7+243.025	37.700m		① REPAIR PROCEDURE
7+205.325 TO 7+243.025		37.700m	② REPAIR PROCEDURE
SPAN 15 7+243.425 TO 7+281.530		38.100m	② REPAIR PROCEDURE
7+248.530 TO 7+254.330	5.800m		② REPAIR PROCEDURE
7+257.430 TO 7+262.030	4.600m		① REPAIR PROCEDURE
7+265.030 TO 7+266.530	1.500m		① REPAIR PROCEDURE
7+268.230 TO 7+271.730	3.500m		① REPAIR PROCEDURE

\* FULL SECTION REPLACEMENT AS DIRECTED BY ENGINEER TO INCLUDE IF NECESSITY, REPLACEMENT OR REPAIR OF THE GRANITE CURB. ALL COST TO BE INCLUDED IN BID PRICE FOR ITEM 582.05M.

(BACKFACE) INDICATES REPAIR AREA IS ON THE OUTSIDE OR BACKFACE OF PARAPET. CAUTION MUST BE TAKEN WHEN WORKING OVER R.R. TRACKS.

PARAPET REPAIR TABLE (ITEM 582.05M)			
BIN 1093572			
STATION TO STATION	RIGHT SIDE (EAST)	LEFT SIDE (WEST)	REMARKS
SPAN 1 6+578.084 TO 6+582.084	4.000m		① REPAIR PROCEDURE
6+592.589 TO 6+594.789	2.200m		① REPAIR PROCEDURE
6+593.884 TO 6+600.884		7.000m	① REPAIR PROCEDURE (BACKFACE)
6+597.489 TO 6+599.489	2.000m		① REPAIR PROCEDURE
6+600.581 TO 6+608.297	7.700m		① REPAIR PROCEDURE
6+602.697 TO 6+608.297		5.600m	① REPAIR PROCEDURE (BACKFACE)
SPAN 2 6+608.697 TO 6+620.197		11.500m	① REPAIR PROCEDURE (BACKFACE)
6+639.497 TO 6+641.497		2.000m	① REPAIR PROCEDURE (BACKFACE)
6+646.997 TO 6+653.497		6.500m	① REPAIR PROCEDURE (BACKFACE)
SPAN 3 6+662.597 TO 6+664.597		2.000m	② REPAIR PROCEDURE
6+676.097 TO 6+684.097	8.000m		① REPAIR PROCEDURE
6+697.097 TO 6+698.097	1.000m		① REPAIR PROCEDURE
6+707.070 TO 6+708.070	1.000m		② REPLACE FULL SECTION *
6+707.070 TO 6+708.070		1.000m	② REPLACE FULL SECTION *
SPAN 4 6+708.470 TO 6+709.470	1.000m		② REPLACE FULL SECTION
6+715.570 TO 6+757.070	41.500m		① REPAIR PROCEDURE
6+719.070 TO 6+728.070		9.000m	① REPAIR PROCEDURE
6+750.420 TO 6+768.420		18.000m	② REPAIR PROCEDURE
6+767.420 TO 6+768.420		1.000m	② REPLACE FULL SECTION
SPAN 5 6+768.820 TO 6+770.320	1.500m		② REPLACE FULL SECTION
6+773.120 TO 6+786.120	13.000m		① REPAIR PROCEDURE
6+778.920 TO 6+783.220		4.300m	① REPAIR PROCEDURE
6+799.620 TO 6+802.120		2.500m	① REPAIR PROCEDURE
6+804.620 TO 6+815.620	11.000m		① REPAIR PROCEDURE
6+826.771 TO 6+828.771		2.000m	② REPLACE FULL SECTION
SPAN 6 6+829.171 TO 6+830.171	1.000m		② REPLACE FULL SECTION
6+829.171 TO 6+830.171		1.000m	② REPLACE FULL SECTION
6+830.171 TO 6+888.771		58.600m	② REPAIR PROCEDURE
6+846.971 TO 6+849.971	3.000m		① REPAIR PROCEDURE
6+855.621 TO 6+889.121	33.500m		① REPAIR PROCEDURE
SPAN 7 6+889.126 TO 6+926.916	37.400m		① REPAIR PROCEDURE
6+892.221 TO 6+897.521		5.300m	① REPAIR PROCEDURE
6+903.321 TO 6+907.621		4.300m	① REPAIR PROCEDURE
6+909.721 TO 6+911.721		2.000m	① REPAIR PROCEDURE
6+916.916 TO 6+926.916		10.000m	② REPAIR PROCEDURE
SPAN 8 6+927.316 TO 6+964.712	37.400m		② REPAIR PROCEDURE
SPAN 9 6+965.112 TO 6+996.112	31.000m		① REPAIR PROCEDURE
SPAN 10 7+014.602 TO 7+023.602		9.000m	② REPAIR PROCEDURE
7+020.302 TO 7+040.302	20.000m		② REPAIR PROCEDURE
SPAN 11 7+044.302 TO 7+046.302		2.000m	① REPAIR PROCEDURE
7+060.397 TO 7+067.697	7.300m		① REPAIR PROCEDURE
SPAN 12 7+099.892 TO 7+101.892	2.000m		① REPAIR PROCEDURE
SPAN 13 7+119.492 TO 7+125.492		6.000m	① REPAIR PROCEDURE
7+168.283 TO 7+186.283		18.000m	① REPAIR PROCEDURE
7+168.983 TO 7+191.483	22.500m		① REPAIR PROCEDURE
SPAN 14 7+171.093 TO 7+191.483	20.400m		① REPAIR PROCEDURE
7+165.783 TO 7+179.283		13.500m	① REPAIR PROCEDURE
SPAN 15 7+197.883 TO 7+199.883		2.000m	① REPAIR PROCEDURE
7+198.283 TO 7+229.683	31.400m		① REPAIR PROCEDURE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	331	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

# GENERAL NOTES:

WORK ADJACENT TO JOINT BLOCK-OUT (200mm) SHALL BE INCLUDED IN THE BRIDGE JOINT REPLACEMENT ITEMS. SEE DRAWING NO. JD-53 FOR JOINT BLOCK-OUT REMOVAL DETAILS.

SOME REPAIRS ARE ON THE BACK FACE OF THE PARAPETS. SOME OF THIS WORK MAY BE OVER THE RAIL ROAD TRACKS.

REFER TO DRAWING NO. PW17-1 FOR CONCRETE REMOVAL DETAILS AND NOTES.

STATIONING AND DIMENSIONS SHOWN FOR CONCRETE REMOVAL ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR AND ENGINEER.

REFER TO RECONSTRUCTION NOTES ON DRAWING NO. GN-1.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

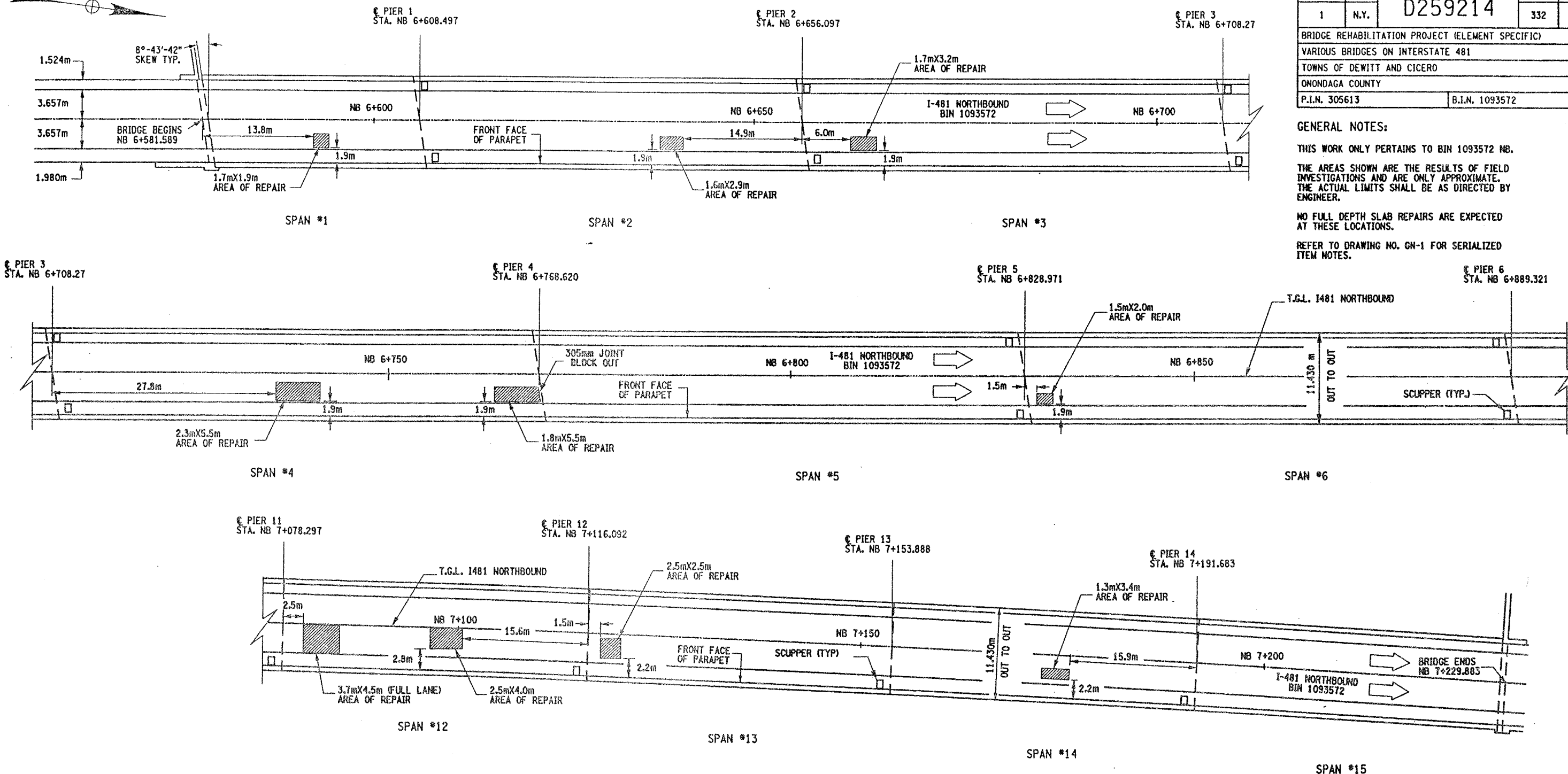
INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
TABLE OF PARAPET REPAIRS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	PW17-2

CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



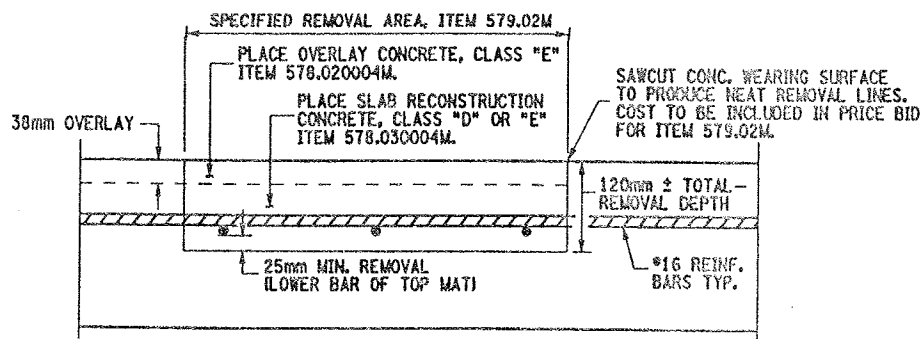
#### REMOVAL NOTES:

ORIGINAL BRIDGE DECK 203mm MONOLITHIC SLAB.  
A 38mm CONC. OVERLAY HAS BEEN ADDED.

THESE LOCATIONS ARE CURRENTLY FILLED WITH  
ASPHALT (BLACKTOP). DEPTH OF ASPHALT IS  
UNKNOWN, ESTIMATED AT 38mm. THE REMOVAL  
OF THE ASPHALT AND CONCRETE TO LIMITS SHOWN  
TO BE PAID UNDER ITEM 579.02M.

REMOVE CONCRETE TO LIMITS SHOWN AND TO SOUND  
CONCRETE, AS ORDER BY ENGINEER.

ALL AREAS THAT ARE REPAIRED SHALL ALSO RECEIVE  
ITEM 558.01 - TRANSVERSE SAWCUT GROOVING AND  
ITEM 18559.1896M - PROTECTIVE SEALING.



CROSS SECTION VIEW THROUGH REPAIR LOCATION

NOT TO SCALE

#### PLAN VIEW OF SPOT DECK REPAIRS

NOT TO SCALE

#### ITEMS USED:

- ITEM 558.01M - TRANSVERSE SAWCUT GROOVING (SM)
- ITEM 18559.1896M - PROTECTIVE SEALING FOR STRUCT. CONC. (SM)
- ITEM 578.020004M - OVERLAY CONCRETE, CLASS "E" (SM)
- ITEM 578.030004M - SLAB RECONSTRUCTION CONCRETE, CLASS "D" OR "E" (SM)
- ITEM 579.02M - REINFORCING BAR EXPOSURE (SM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	332	432

BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)  
VARIOUS BRIDGES ON INTERSTATE 481  
TOWNS OF DEWITT AND CICERO  
ONONDAGA COUNTY  
P.I.N. 305613 B.I.N. 1093572

#### GENERAL NOTES:

THIS WORK ONLY PERTAINS TO BIN 1093572 NB.

THE AREAS SHOWN ARE THE RESULTS OF FIELD  
INVESTIGATIONS AND ARE ONLY APPROXIMATE.  
THE ACTUAL LIMITS SHALL BE AS DIRECTED BY  
ENGINEER.

NO FULL DEPTH SLAB REPAIRS ARE EXPECTED  
AT THESE LOCATIONS.

REFER TO DRAWING NO. GN-1 FOR SERIALIZED  
ITEM NOTES.

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

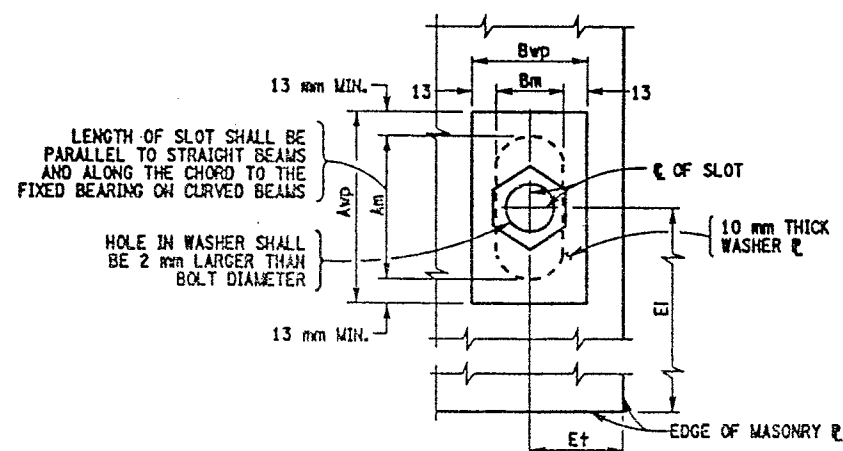
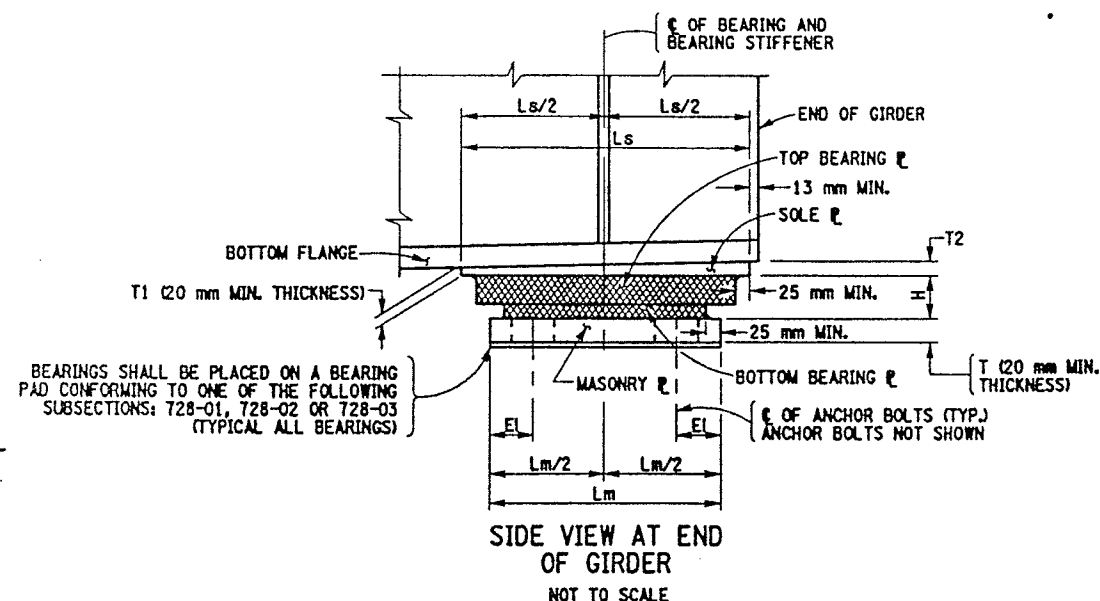
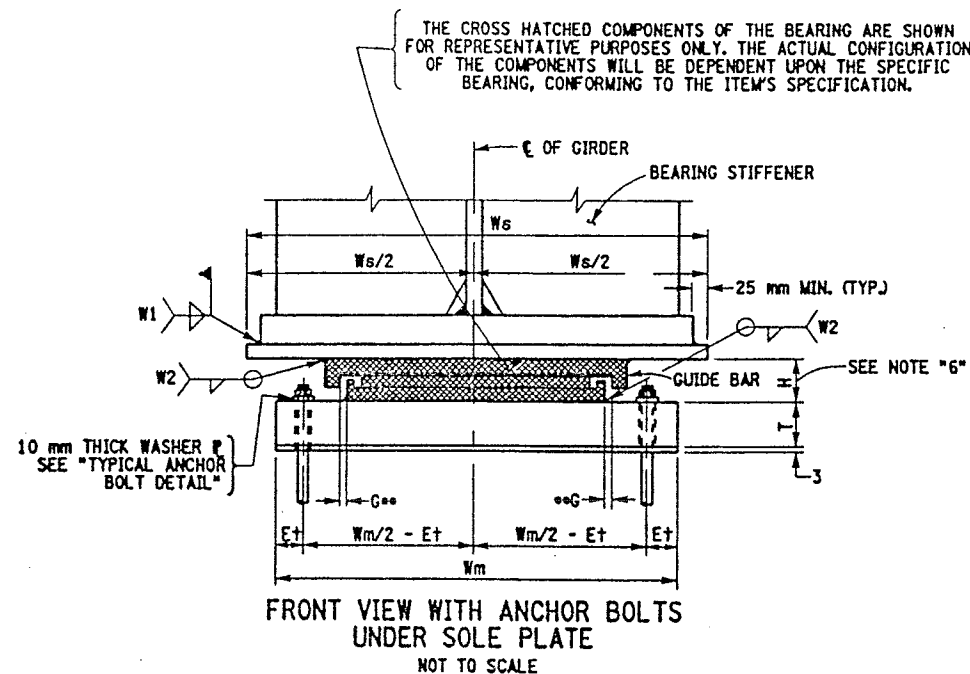
SIGNATURE DATE

INTERSTATE 481  
OVER  
CSX RAILROAD YARD  
BRIDGE DECK REPAIRS

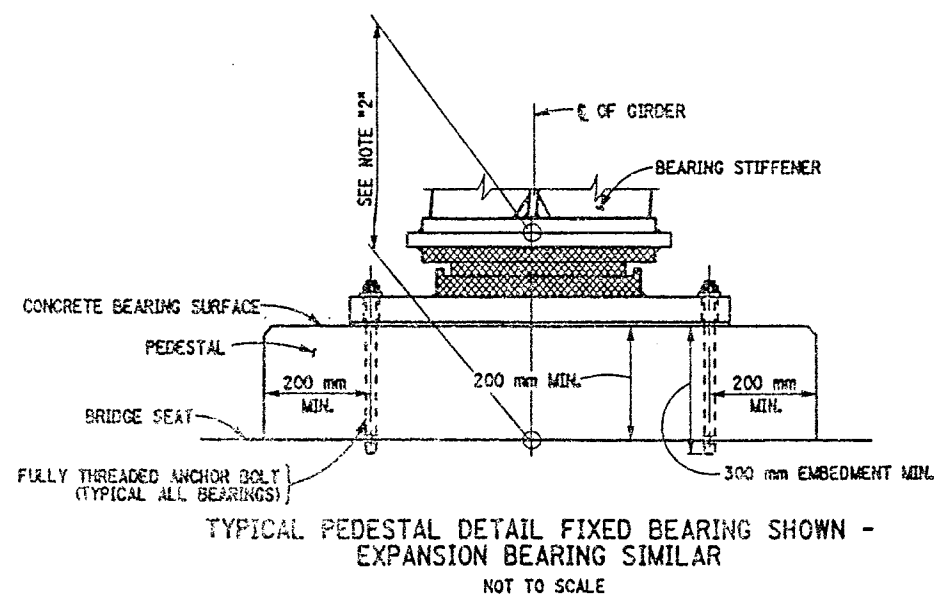
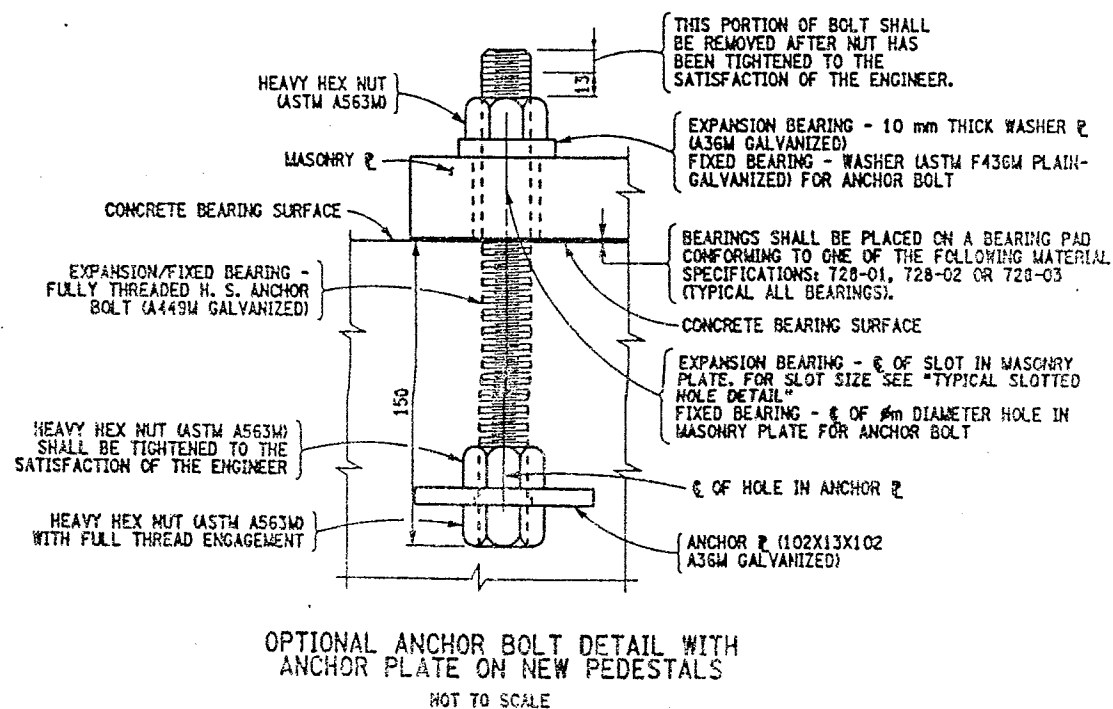


STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AB.R1A	3	10/02	DR17-1



TYPICAL ANCHOR BOLT DETAIL  
NOT TO SCALE



FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	341	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.J.N. VARIOUS	

**NOTES:**

THE CONTRACTOR SHALL SUPPLY MULTI-ROTATIONAL STRUCTURAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 AND SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENT SHOWN ON THESE PLANS.
2. THE DIMENSION "H" IN THE BEARING TABLE REPRESENTS THE ASSUMED TOTAL HEIGHT OF BEARING MECHANISM BETWEEN THE SOLE PLATE AND MASONRY PLATE USED BY THE DESIGNER TO ESTABLISH THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL OF THE DEPUTY CHIEF ENGINEER (STRUCTURES).
3. MASONRY PLATES ARE TO BE DESIGNED. THE MINIMUM CONCRETE EDGE DISTANCE SHALL BE 75 mm AND THE MINIMUM ANCHOR BOLT COVER SHALL BE 200 mm.
4. THE BEARING DEVICE, MASONRY PLATE, SOLE PLATE, ANCHOR BOLTS, NUTS, WASHER PLATES AND BEARING PAD SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEMS.
5. ALL EXPANSION BEARINGS SHALL HAVE A MAXIMUM FRICTION COEFFICIENT OF 3%.
6. IF THE ANCHOR BOLTS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR MUT PLUS 25 mm SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
7. ALL STEEL SHALL CONFORM TO ASTM A588M.
8. ALL METAL COMPONENTS OF THE BEARING SYSTEM WHICH ARE LIABLE TO COME INTO CONTACT DURING THE TRANSLATION SHALL HAVE A TEFLON SLIDING SURFACE FINISH.
9. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.

WHENEVER JACKING OF THE SUPERSTRUCTURE IS NEEDED TO RESET THE BEARINGS, THE CONTRACTOR SHALL SUBMIT A JACKING SEQUENCE TO THE E.C. FOR APPROVAL.

LIST OF ITEMS USED:

ITEM 565.1522M - TYPE M.R. EXPANSION BEARING (1001 TO 2000KN) (EA)  
ITEM 565.1722M - TYPE M.R. FIXED BEARING (1001 TO 2000KN) (EA)

\*ONE WAY LONGITUDINAL MOVEMENT IS THE MAXIMUM ONE WAY MOVEMENT (EXPANSION OR CONTRACTION) OF THE SUPERSTRUCTURE WHEN BEARINGS ARE SET @ 20°C PLUS 25 MILLIMETERS OF TOLERANCE.

\*-ON WIDE STRUCTURES AND ON CURVED STRUCTURES PROVISIONS SHALL BE MADE FOR LIMITED LATERAL MOVEMENT.

ALL DIMENSIONS ARE IN IN UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

MULTI ROTATIONAL BEARINGS

[illegible]

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO
305613AE.MIA	3	10/02	BR-1

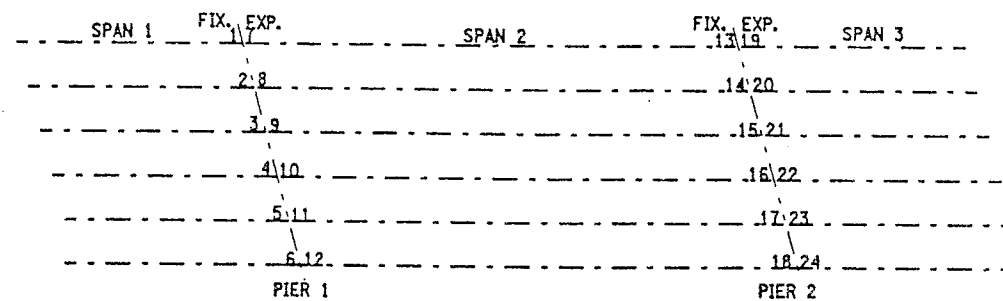


DESIGN SUPERVISOR  
JOB MANAGER  
DESIGNED BY  
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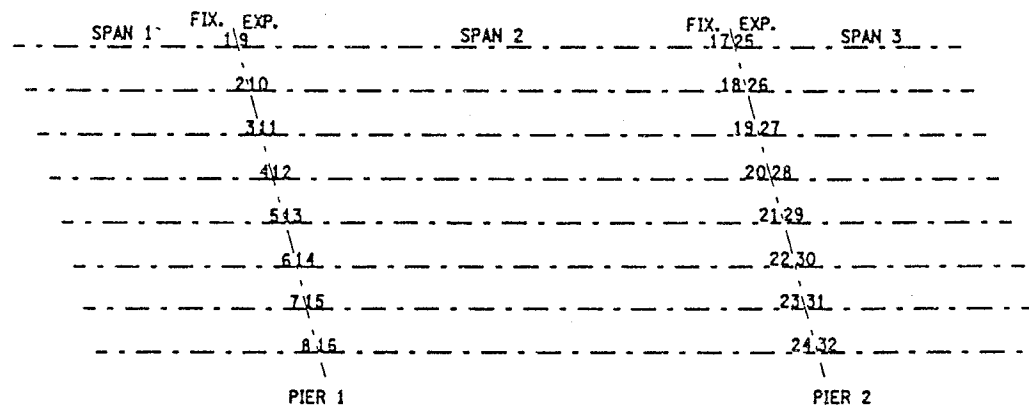
FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	342	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. VARIOUS	

BIN	LOCATION	FIX./ EXP.	ITEM NO.	QUAN. REQ'D.	CAPACITY (KN)		*ONE WAY LONGIT. MOVEMENT	**G) GUIDE CLEARANCE	MASONRY P								WASHER P		SOLE P				BRG. H	ANCHOR BOLTS		WELD SIZE	
					VERT.	HORZ.			Lm	Wm	T	Et	El	Am	Bm	Aw	Bwp	Ls	Ws	T1	T2	Ø		BOLTS/BRG.	W1	W2	
1093571	PIER 4 @ 5 & 8 - PIER 5 @ 13 & 16	EXP.	565.1522M	4	1	556.8	295.79	63 mm		445	770	35	80	110	78	48	104	74	545	815	30	30	162	38	4	8	8
1093571	PIER 4 @ 6 & 7 - PIER 5 @ 14 & 15	EXP.	565.1522M	4	1	556.8	295.79	63 mm		445	770	35	80	110	78	48	104	74	545	660	30	30	162	38	4	8	8
1093571	PIER 4 @ 1 & 4 - PIER 5 @ 9 & 12	FIX.	565.1722M	4	1	556.8	295.79	-		445	665	62	80	110	-	-	-	-	395	815	60	60	104	38	4	8	8
1093571	PIER 4 @ 2, 3 - PIER 5 @ 10 & 11	FIX.	565.1722M	4	1	556.8	295.79	-		445	665	62	80	110	-	-	-	-	395	660	60	60	104	38	4	8	8
1002131	PIER 1 @ 1 & 8	FIX.	565.1722M	2		333.6	63.38	-		260	530	65	50	84	-	-	-	-	240	360	45	45	76	25	4	8	8
1002131	PIER 1 @ 2 - 7	FIX.	565.1722M	6		333.6	63.38	-		260	530	40	50	84	-	-	-	-	240	360	20	20	76	25	4	8	8
1002131	PIER 1 @ 9 - 16	EXP.	565.1522M	8		444.8	84.51	42 mm		260	530	40	50	84	65	35	91	61	360	360	20	20	115	25	4	8	8
1002131	PIER 2 @ 17 & 24	FIX.	565.1722M	2		444.8	84.51	-		280	530	51	50	84	-	-	-	-	260	360	20	20	84	25	4	8	8
1002131	PIER 2 @ 18 - 23	FIX.	565.1722M	6		444.8	84.51	-		280	530	40	50	84	-	-	-	-	260	360	20	20	84	25	4	8	8
1002131	PIER 2 @ 25 - 32	EXP.	565.1522M	8		333.6	63.38	33 mm		280	530	40	50	84	65	35	91	61	340	360	20	20	107	25	4	8	8
1002132	PIER 1 @ 1 & 6	FIX.	565.1722M	2		333.6	63.38	-		250	560	64	50	84	-	-	-	-	250	360	44	44	76	25	4	8	8
1002132	PIER 1 @ 2 - 5	FIX.	565.1722M	4		333.6	63.38	-		250	560	40	50	84	-	-	-	-	250	360	20	20	76	25	4	8	8
1002132	PIER 1 @ 7 - 12	EXP.	565.1522M	6		667.2	126.77	42 mm		304	670	40	50	84	65	35	91	61	400	500	20	20	123	25	4	8	8
1002132	PIER 2 @ 13 - 18	FIX.	565.1722M	6		667.2	126.77	-		304	670	40	50	84	-	-	-	-	300	500	20	20	86	25	4	8	8
1002132	PIER 2 @ 19 & 24	EXP.	565.1522M	2		333.6	63.38	33 mm		270	560	50	50	84	65	35	91	61	350	360	30	30	107	25	4	8	8
1002132	PIER 2 @ 20 - 23	EXP.	565.1522M	4		333.6	63.38	33 mm		270	560	40	50	84	65	35	91	61	350	360	20	20	107	25	4	8	8

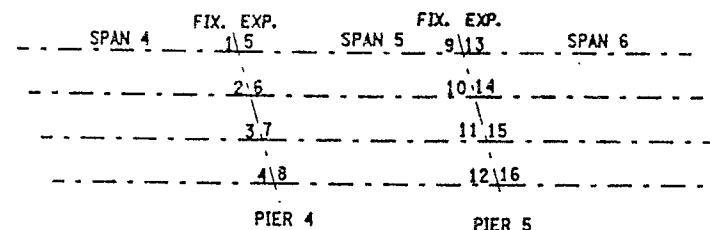
T2 IS UPSTATION OF T1.



BEARING LOCATION SCHEMATIC  
BIN 1002132



BEARING LOCATION SCHEMATIC  
BIN 1002131



BEARING LOCATION SCHEMATIC  
BIN 1093571

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE		DATE	
MULTI ROTATIONAL BEARINGS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AE.M1A	REGION 3	DATE 10/02	DRAWING NO. BR-2

CHECKED BY

DRAFTED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

JOB MANAGER

DESIGN SUPERVISOR

PIER	SPAN-GIRDER	EXP. BRG. TYPE	SOLE R- DIM. "A"
SB-P1	2 - A11	III	584
SB-P3	4 - 1&4	II	813
SB-P3	4 - 2&3	II	660
SB-P6	7 - 1&4	II	508
SB-P6	7 - 2&3	I	610
SB-P7	8 - 1&4	I	635
SB-P7	8 - 2&3	I	610
SB-P9	10 - A11	I	660
SB-P10	11 - 1&4	I	635
SB-P10	11 - 2&3	I	610
SB-P11	12 - 1&4	I	635
SB-P11	12 - 2&3	I	610
SB-P13	14 - 1&4	I	635
SB-P13	14 - 2&3	I	610
NB-P1	1 - A11	III	584
NB-P2	3 - 1&4	III	762
NB-P2	3 - 2&3	III	711
NB-P3	4 - 1&4	II	813
NB-P3	4 - 2&3	II	660
NB-P4	5 - 1&4	II	813
NB-P4	5 - 2&3	II	660
NB-P6	7 - 1&4	II	508
NB-P6	7 - 2&3	II	610
NB-P7	8 - 1&4	II	635
NB-P7	8 - 2&3	I	610
NB-P8	9 - 1&4	I	635
NB-P8	9 - 2&3	I	610
NB-P10	11 - 1&4	I	635
NB-P10	11 - 2&3	I	610
NB-P11	12 - 1&4	I	635
NB-P11	12 - 2&3	I	610

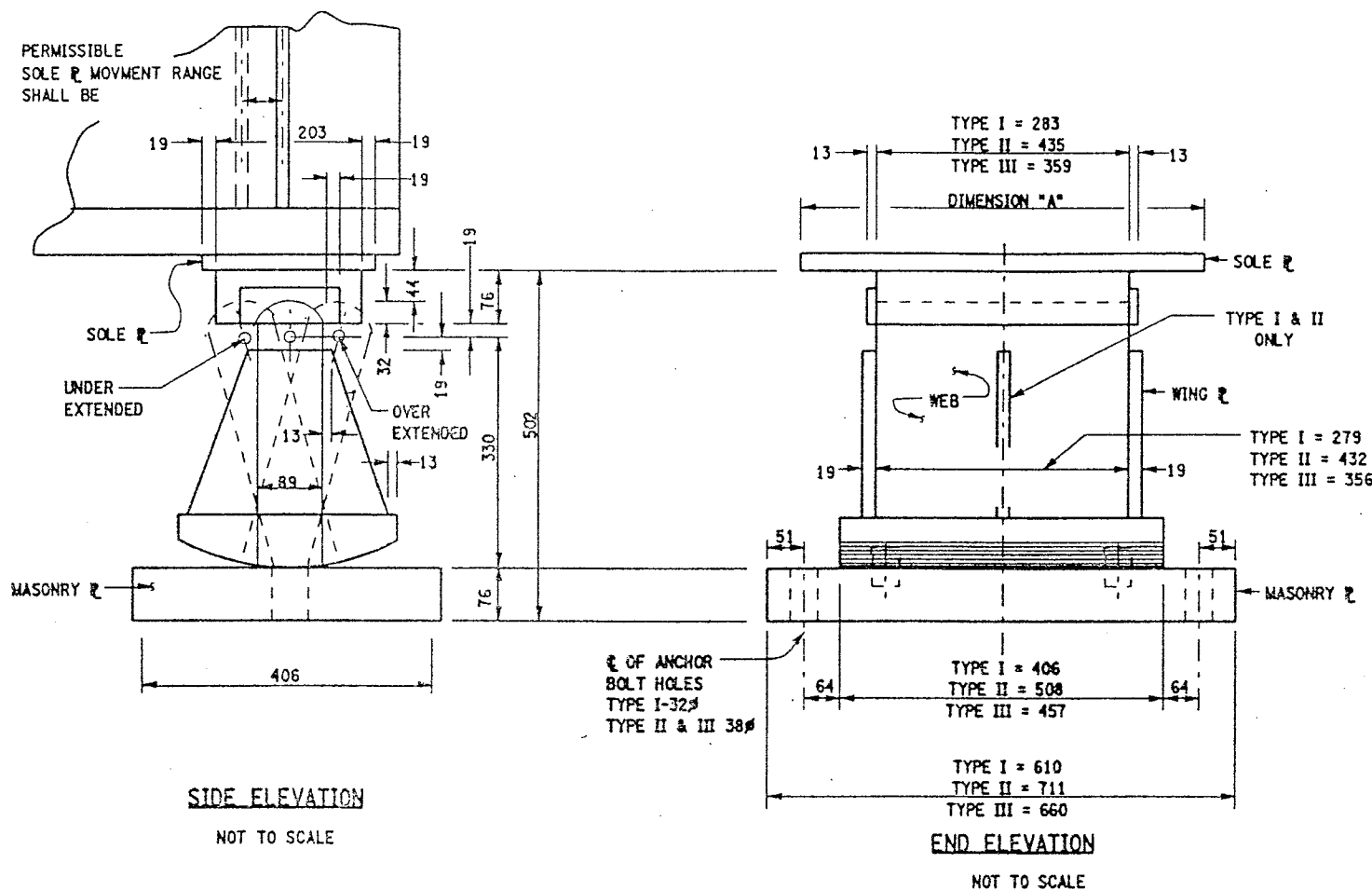
## ITEM CLARIFICATION NOTE:

ITEM 589.52NNNM - REMOVAL OF EXISTING STEEL IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 589.520001M  
BIN 1093572 NB SHALL USE ITEM 589.520002M

ITEM 571.01NNNM - THE TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 571.010001M  
BIN 1093572 NB SHALL USE ITEM 571.010002M

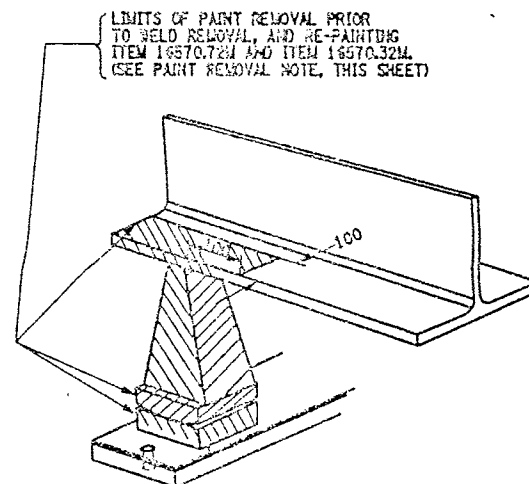
ITEM 570.10NNNM - ENVIRONMENTAL GROUND PROTECTION IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 570.090001M  
BIN 1093572 NB SHALL USE ITEM 570.090002M

ITEM 570.09NNNM - ENVIRONMENTAL WATER PROTECTION IS A SERIALIZED ITEM AND THE FOLLOWING PAY ITEMS SHALL BE INCORPORATED BY BRIDGE:  
BIN 1093571 SB SHALL USE ITEM 570.100001M  
BIN 1093572 NB SHALL USE ITEM 570.100002M

EXISTING HIGH ROCKER EXPANSION BEARING  
BIN 1093571 & BIN 1093572

## PAINT REMOVAL NOTE:

- IN CONJUNCTION WITH THE USE OF ITEM 16570.32M AND ITEM 16570.76M, ITEM 571.01NNNM - TREATMENT & DISPOSAL OF PAINT REMOVAL WASTE AND EITHER ITEM 570.10NNNM - ENVIRONMENTAL GROUND PROTECTION OR ITEM 570.09NNNM - ENVIRONMENTAL WATER PROTECTION SHALL ALSO BE INCORPORATED DURING THE PAINT REMOVAL OPERATIONS.
- ALL NEW PARTS INSTALLED AT THIS LOCATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 15565.4302. THE CONTRACTOR WILL BE PAID FOR A QUANTITY OF ONE FOR ALL NEW MATERIALS AT THIS LOCATION.
- ALL EXISTING SURFACES SHALL BE CLEANED AND LUBRICATED TO ENSURE FREE MOVEMENT, ITEM 15565.4302M.



## PAINT REMOVAL DETAIL

SCALE: 1 TO 5

## LIST OF ITEMS USED:

ITEM 571.010001M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE (CM)  
ITEM 571.010002M - TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE (CM)  
ITEM 15565.4302M - BRIDGE BEARING RESTORATION (CA)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	350	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613		B.I.N. 1093571 & 1093572		

## BRIDGE BEARING RESTORATION NOTES:

- BRIDGE BEARING RESTORATION ITEM 15565.4302M SHALL INCLUDE ALL DESIGNATED WORK AS PER THE SPECIFICATION.
- STRUCTURAL LIFTING SHALL BE USED WITH ALL EXPANSION BEARING RESTORATION.
- IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER SPAN (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARINGS), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN SPECIFICATIONS SECTION 585-STRUCTURAL LIFTING OPERATIONS.
- BEARING RESTORATION SHALL AS A MINIMUM, AND IN ALL CASES INCLUDE REPLACEMENT OF BRONZE PLATE.
- FIXED BEARING TO BE CLEANED IN PLACE. DO NOT DISASSEMBLE.
- ON BINS 1093571 & 1093572, BRIDGE BEARING RESTORATION ITEM 15564.4302M FOR THE HIGH ROCKER BEARINGS SHALL INCLUDE ONLY THOSE BEARINGS SHOWN ON DWG BR-11 WHICH ARE EITHER OVER EXTENDED OR UNDER EXTENDED MORE THAN 5° FROM WHAT SHOULD BE ANTICIPATED FOR THE AMBIENT TEMPERATURE. THOSE EXPANSION BEARINGS WHICH ARE BEING RESTORED SHALL BE RESET TO ORIGINAL SPECIFICATIONS.

## JACKING NOTES:

THE METHOD OF LIFTING SHALL BE APPROVED BY THE DEPUTY CHIEF ENGINEER (STRUCTURES), DSES, TWO WEEKS PRIOR TO THE START OF THE WORK.

NO LIFTING WILL BE ALLOWED UNTIL ALL TEMPORARY SUPPORTS ARE SECURED.

WHEN POSSIBLE, THERE WILL BE NO LIVE LOAD DURING LIFTING.

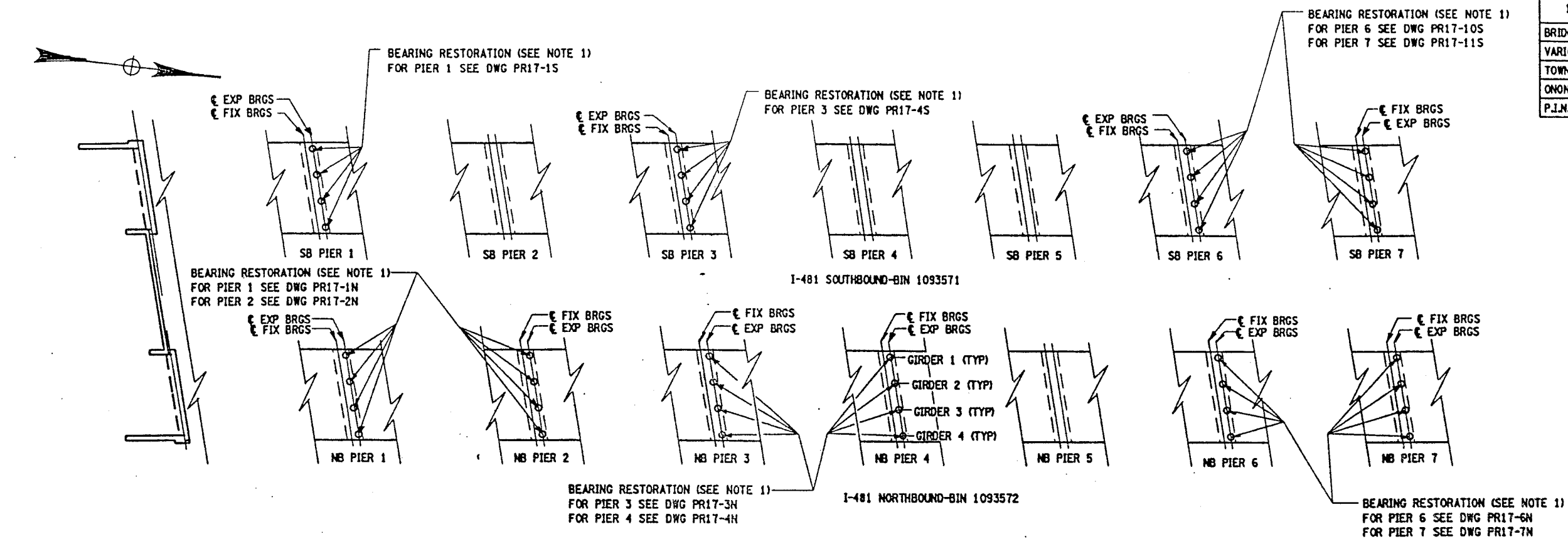
LIFTING SHALL BE CONFINED TO ONE END OF A SPAN AT ANY ONE TIME.

IF THE CONTRACTOR ELECTS TO LIFT ONLY ONE GIRDER AT A TIME PER PIER (TO A MAXIMUM OF 3 mm TO REMOVE LOAD FROM BEARING), NO VEHICULAR TRAFFIC RESTRICTIONS WILL BE REQUIRED AS STATED IN THE SPECIFICATION SECTION 585-STRUCTURAL LIFTING OPERATIONS.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

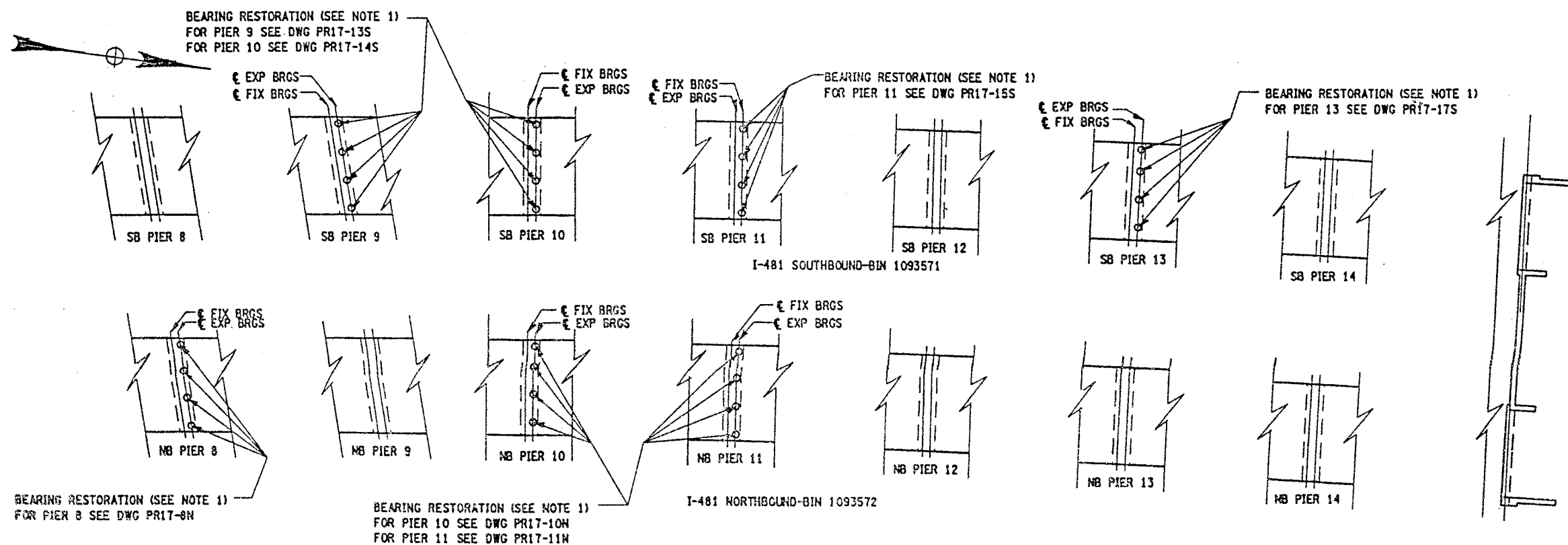
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INTERSTATE 481 SB & NB OVER CSX RAILROAD BEARING RESTORATION DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 3056137Z.M1A	REGION 3
DATE 10/02	DRAWING NO. BR-10

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	351	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.J.N. 305613			B.I.N. 1093571 & 1093572	



## NOTES

1. BRIDGE BEARING RESTORATION ITEM 15565.4302M AND EITHER  
STRUCTURAL LIFTING OPERATION -(TYPE B) ITEM 585.02M OR  
STRUCTURAL LIFTING OPERATION -(TYPE C) ITEM 585.03M



BRIDGE PLAN SCHEMATIC  
SCALE 1:300

ALL DIMENSIONS ARE IN m UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE


INTERSTATE 481 SB & NB  
OVER  
CSX RAILROAD  
BEARING RESTORATION DETAILS  
BRIDGE PLAN SCHEMATIC

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
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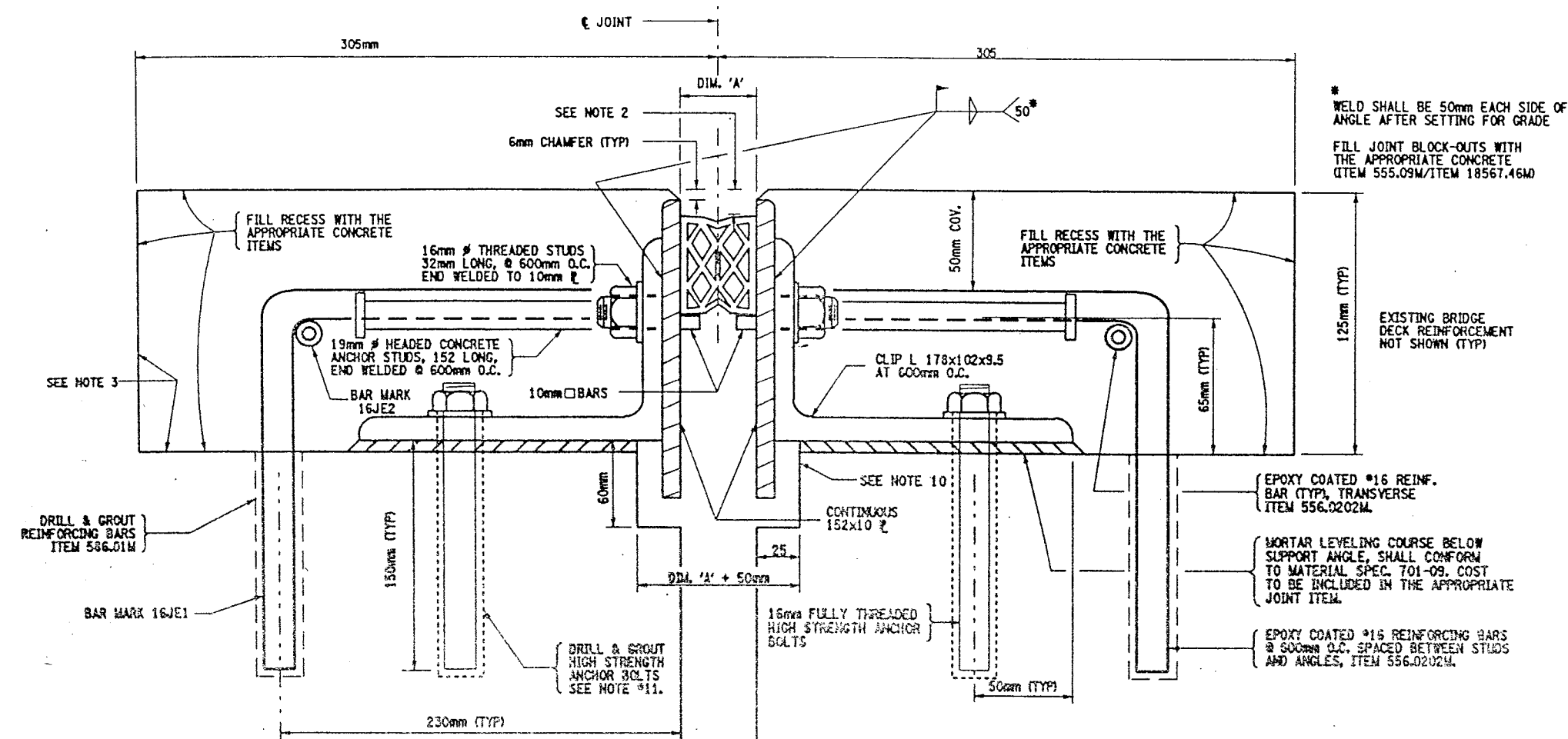
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ALL DIMENSIONS ARE IN INCHES UNLESS NOTED <u>AS BUILT REVISIONS</u>			
_____ SIGNATURE		_____ DATE	
INTERSTATE 481 VARIOUS BRIDGES BRIDGE JOINT TABLE			
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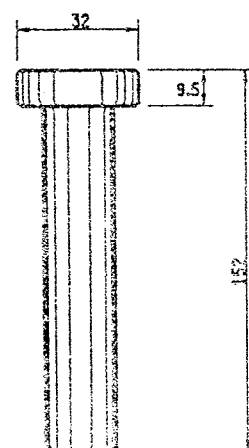
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ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	365	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. ALL BIN'S	

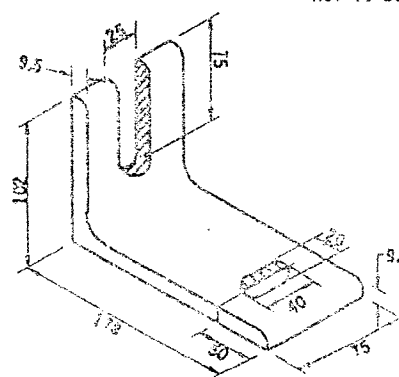


### MODIFIED ARMORED COMPRESSION JOINT DETAIL

FOR INSTALLATION LOCATIONS SEE JOINT TABLE  
NOT TO SCALE



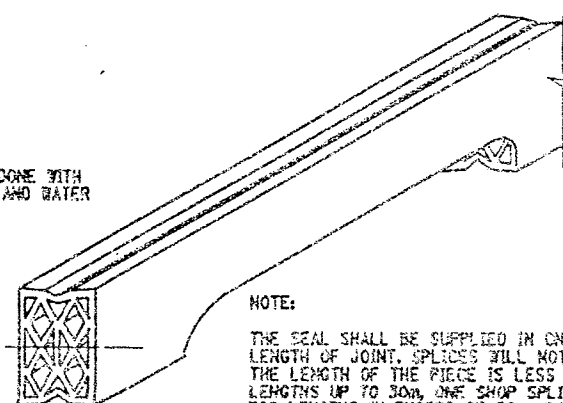
DETAIL OF HEADED CONCRETE ANCHOR STUD  
NOT TO SCALE



DETAIL OF CLIP ANGLE  
NOT TO SCALE

NOTE:  
ALL CUTTING TO BE DONE WITH A COPING SAW, SOAP AND WATER

DO NOT CUT SEAL ABOVE THIS LINE



DETAIL FOR CUTTING SEAL  
NOT TO SCALE

### EPOXY POLYSULFIDE GROUT NOTE:

CONTRACTOR MAY WITH THE APPROVAL OF THE ENGINEER USE MATERIAL SPECIFICATION 721-03 EPOXY POLYSULFIDE GROUT, AT THE RECESSES, INSTEAD OF THE 12 HOUR CONTINUOUS PREWETTING REQUIREMENTS (PROJECT PROPOSAL). CONTRACTOR MUST ENSURE PROPER CONSTRUCTION PRACTICES ARE FOLLOWED WHEN USING THIS GROUT. THE USE OF EPOXY POLYSULFIDE GROUT SHALL BE AT NO ADDITIONAL COST TO THE STATE.

SEALS (mm)			ARMORED JOINT SYSTEM	
TYPE	NOMINAL WIDTH	DIM. "A" @ 20°C.	TYPE	END CONDITION
1	44	25	A1	Fixed End Only
2	51	30	A2	Exp. up to 18 m
3	64	38	A3	Exp. over 18 m to 23 m
4	76	44	A4	Exp. over 23 m to 27 m
5	89	52	A5	Exp. over 27 m to 38 m
6	102	60	A6	Exp. over 38 m to 46 m

Maximum Skew Limiter: Fixed End - No Limit  
Exp. End - 45° A2 thru A6

### LIST OF ITEMS USED:

ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)  
ITEM 556.0202M - EPOXY COATED BAR REINF. FOR STRUCT. (CM)  
ITEM 567.31M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A1 (m)  
ITEM 567.32M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A2 (m)  
ITEM 567.35M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A5 (m)  
ITEM 567.36M - MOD. ARMORED JOINT SYSTEM W/ COMP. SEAL TYPE A6 (m)  
ITEM 18567.46M - ELASTOMERIC CONC. FOR BRIDGE JT. SYSTEMS 60  
ITEM 586.01M - DRILL & GROUT REINF. BARS (mm)

### GENERAL NOTES:

1. THE TEMPERATURE OF THE BRIDGE MUST BE TAKEN ON THE STRUCTURAL STEEL SURFACE TO DETERMINE THE TEMPERATURE CORRECTION FOR THE JOINT OPENINGS.
2. THIS DEPTH SHALL BE INDICATED ON THE SHOP DRAWINGS AND SHALL BE SUCH THAT WHEN THE SEAL IS COMPRESSED TO 50% OF ITS NORMAL WIDTH, THE TOP OF THE SEAL SHALL BE NOT LESS THAN 6mm NOR MORE THAN 19mm BELOW THE TOP OF THE ROADWAY.
3. RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACE AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE, FOR 12 HOURS. NOTE THE USE OF MATERIAL SPEC. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, SEE INSERT IN PROJECT PROPOSAL.
4. A WATER-TIGHT INTEGRITY TEST SHALL BE PERFORMED BY THE CONTRACTOR AT ALL COMPRESSION SEAL JOINT INSTALLATIONS. THE FOLLOWING TEST PARAMETERS SHALL BE INCORPORATED IN THE TEST:
  1. A 15 MINUTE MINIMUM PERIOD OF STANDING WATER, WITH A 25mm MINIMUM DEPTH SHALL BE USED.
  2. IN ADDITION, IN LOCATIONS OF COPED AREAS OF THE SEAL, BENDS, ETC., WATER PRESSURE SHALL BE APPLIED, TO THE SATISFACTION OF THE EIC FOR A 15 MINUTE PERIOD.
  3. LIMITS OF TEST AREA SHALL BE FROM FACE OF CURB TO FACE OF CURB ON THE DECK SURFACE.
5. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR THE JOINT IF, IN THE OPINION OF THE ENGINEER, THE INSTALLED JOINT LEAKS WITHIN THE 15 MINUTE TEST PERIOD.
6. PRIOR TO THE START OF WORK AT EACH JOINT, THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR THE SPECIFICS OF THE TESTING, INCLUDING CONTAINMENT OF THE WATER AND THE METHOD TO BE USED FOR ACCESS BY THE E.I.C. TO THE BOTTOM OF THE JOINT BEING TESTED.
7. THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR THE TESTING WHICH INCLUDES, BUT IS NOT LIMITED TO:
  1. A CONTAINMENT SYSTEM FOR THE TEST WATER.
  2. PROVISIONS FOR E.I.C. ACCESS TO THE BOTTOM OF THE JOINT. SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE JOINT ITEMS.
8. THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS TO INSTALL THE NEW JOINT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT ITEM.
9. MORTAR LEVELING COURSE SHALL CONFORM TO MATERIAL SPECIFICATION 701-09 AND SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE JOINT ITEM.
10. THE DIMENSIONS OF THE REMOVAL AREA UNDER THE 152x10 PLATES ARE SHOWN TO ALLOW SPACE FOR THE PLATES TO REST FREELY. IF THERE IS ALREADY ADEQUATE SPACE, NO CONCRETE REMOVAL OR REPLACEMENT IS REQUIRED IN THIS AREA.
11. 16 mm # ASTM A325M ANCHOR BOLT TO BE DRILLED AND GROUTED IN PLACE IN ACCORDANCE WITH THE REQUIREMENTS OF SUB-SECTION 586-3.02. GROUTING MATERIALS SHALL BE IN ACCORDANCE WITH MATERIALS SUB-SECTION 701-07 ANCHORING MATERIALS-CHEMICALLY CURING. HOLES TO BE DRILLED TO THE DIAMETER AND DEPTH RECOMMENDED BY THE MANUFACTURER OF THE GROUTING MATERIAL Q.M. DEPTH OF 150 mm). THE COST OF THE ANCHORS, INCLUDING DRILLING AND GROUTING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE JOINT SYSTEM ITEM.
12. IT IS DESIRABLE TO HAVE THE ARMORED JOINT WITH ITS COMPRESSION SEAL ASSEMBLED IN THE SHOP AND DELIVERED TO THE JOB SITE ALL SET FOR INSTALLATION IN ITS PREFORMED RECESS IN THE STRUCTURAL SLAB. IN CASES WHERE THE ARMORED JOINT CANNOT BE ASSEMBLED IN THE SHOP, DUE TO ITS EXCESSIVE LENGTH CAUSING SHIPPING PROBLEMS, THE JOINT SHALL BE SEALED WITH THE COMPRESSION SEAL BEFORE THE STRUCTURE IS OPENED TO TRAFFIC INCLUDING CONSTRUCTION TRAFFIC, AND BEFORE DIS CONTINUING OPERATIONS WHEN WORK IS SUSPENDED DURING THE WINTER.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481

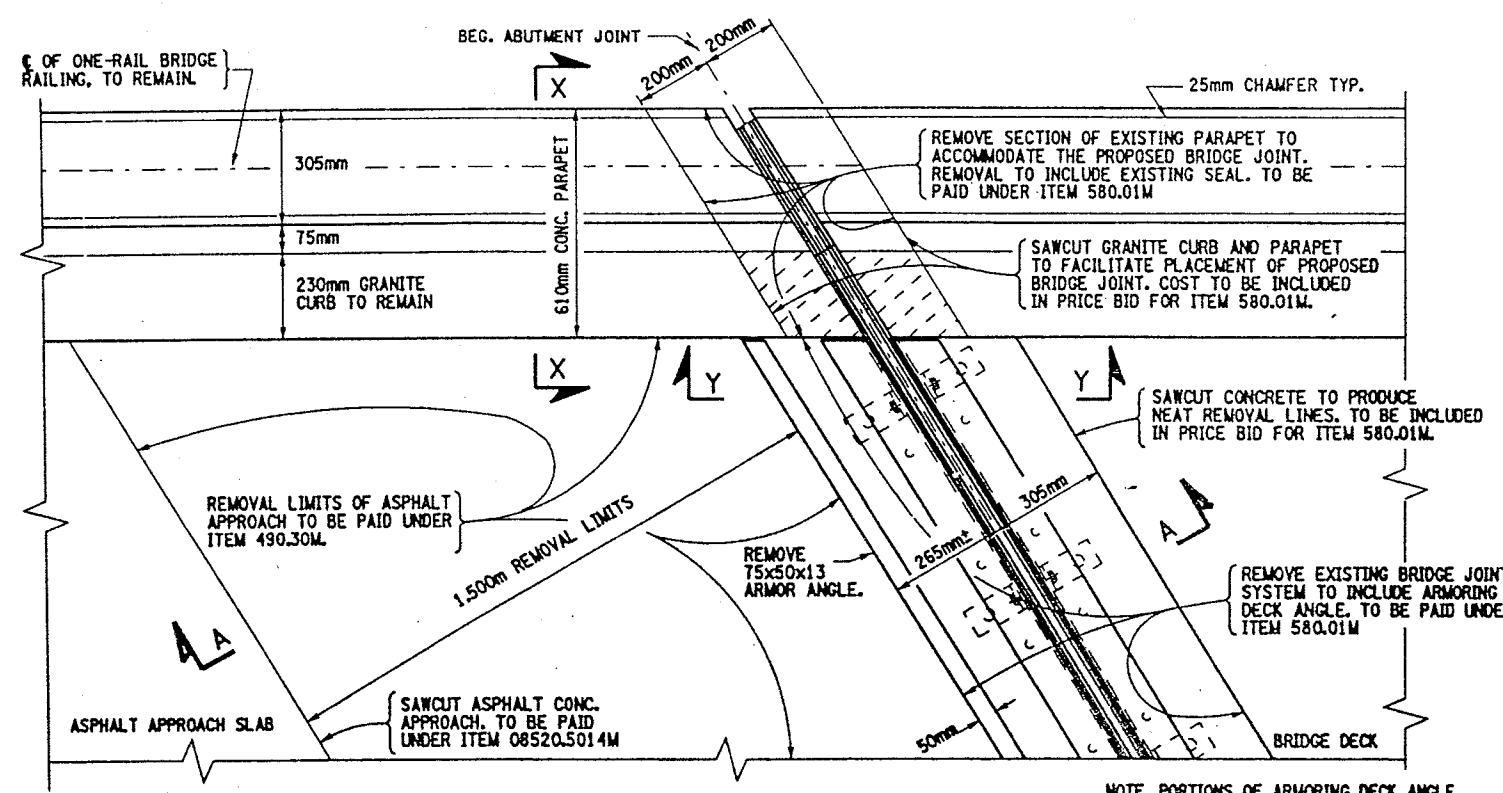
### COMPRESSION SEAL JOINT DETAILS



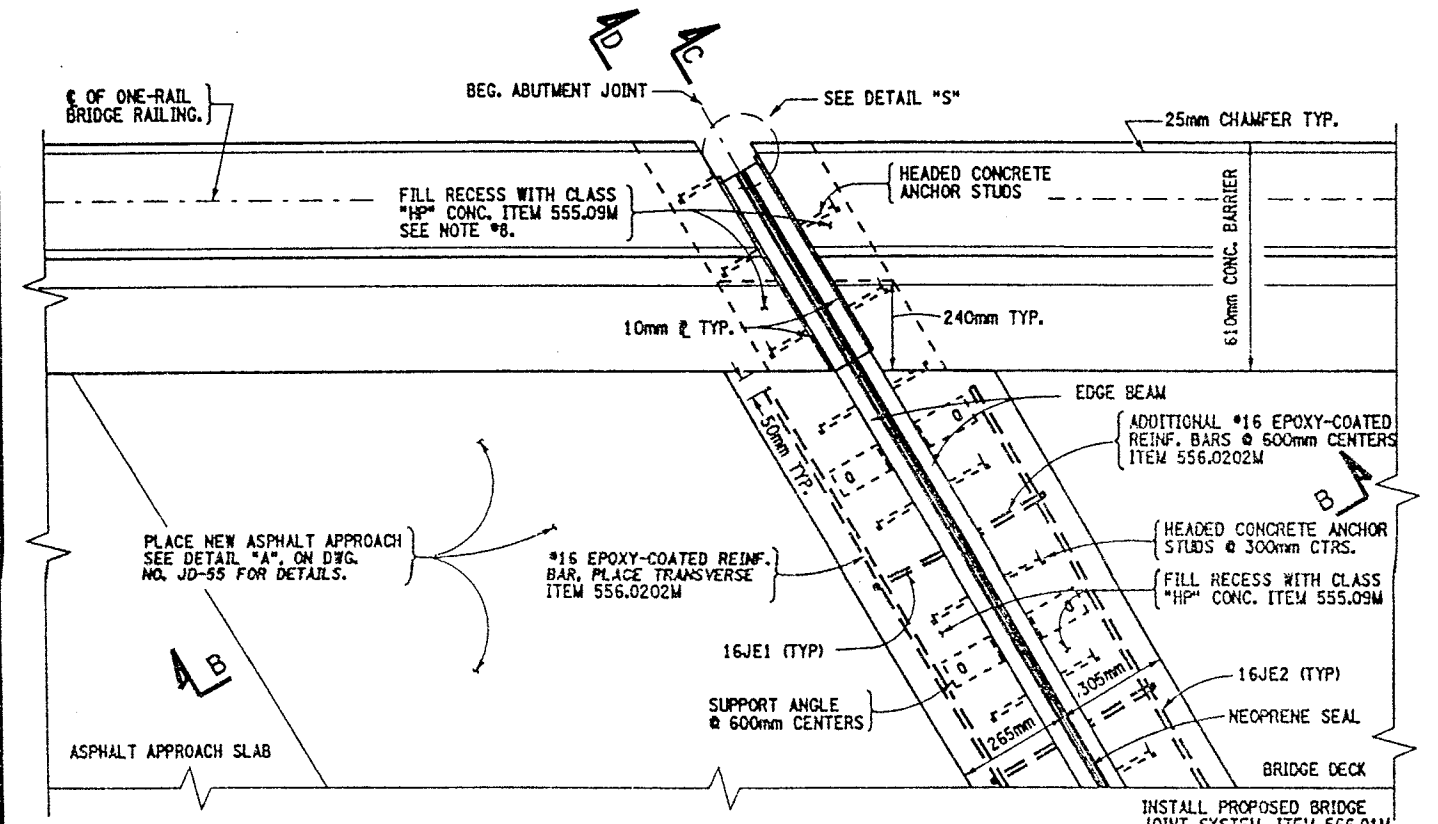
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
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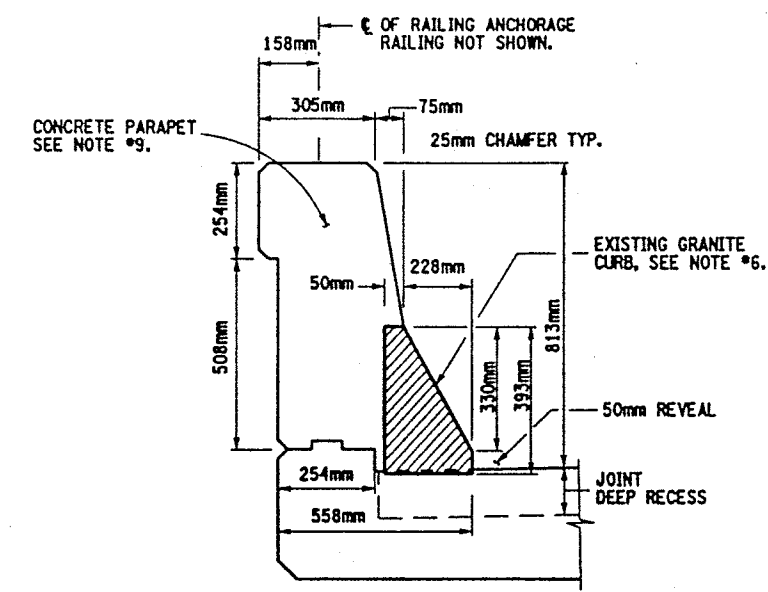
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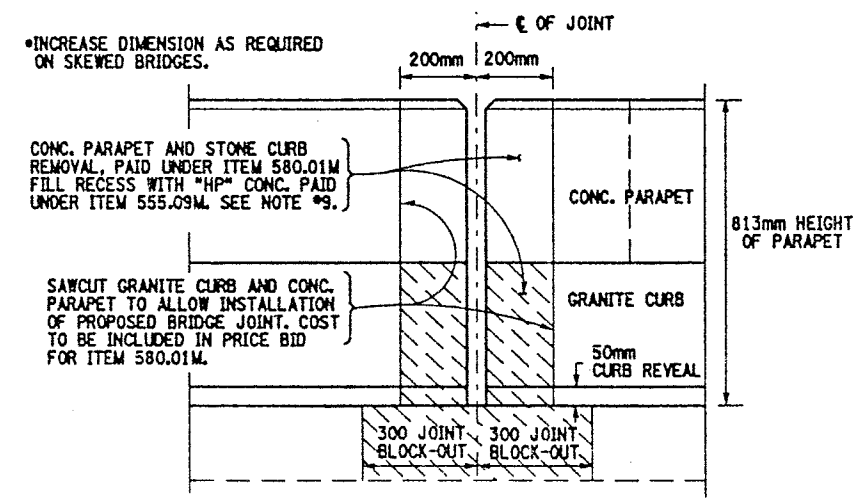
EXISTING BEG. ABUTMENT JOINT PLAN VIEW  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.  
NOT TO SCALE



PROPOSED BEG. ABUTMENT JOINT PLAN VIEW  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.  
NOT TO SCALE



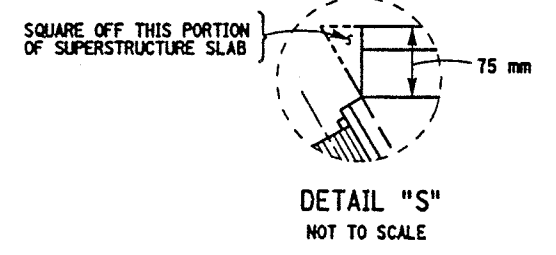
SECTION X-X  
PARAPET CONCRETE REMOVAL DETAIL  
NOT TO SCALE



SECTION Y-Y  
PARAPET CONCRETE REMOVAL DETAIL  
NOT TO SCALE

NOTES:

1. REMOVAL OF ARMORING DECK ANGLE SHALL BE FROM CURB TO CURB.
2. FOR SECTION VIEWS SEE DWG. NO. JD-55 & JD-56.
3. FOR ADDITIONAL INFORMATION REFER TO DWG. NO. JT-3 & JT-4. ALSO SEE ORIGINAL CONTRACT NUMBER FISH 70-7 AND CONTRACT NUMBER D251436 FOR PREVIOUS WORK.
4. THE EXISTING BRIDGE JOINTS BUTT UP TO PARAPET. THE SEAL THRU THE PARAPET IS PLACED SEPARATE.
5. LEFT SIDE OF DECK SHOWN, RIGHT SIDE IDENTICAL.
6. SAW CUTTING OF CONCRETE AND GRANITE CURB SHALL BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
7. REFER TO DWG. NO. JD-24 FOR ONE-CELL MODULAR JOINT SYSTEM DETAILS AND NOTES.
8. FILL RECESS AT PARAPET WITH CLASS "HP" CONCRETE RESTORE TO ORIGINAL DIMENSIONS.
9. REMOVAL DIMENSIONS AT PARAPETS MAY BE INCREASED TO ENCOMPASS ANY DETERIORATED CONCRETE ADJACENT TO THE JOINT BLOCK-OUT AREA, ABOVE.
10. FOR SKEW ANGLES SEE NOTE #8, ON DWG. NO. JD-54.



WORK TO BE DONE:

- BIN 1093571 SB
- REMOVE ARMORING DECK ANGLE AND REPLACE BRIDGE JOINT AT BEGINNING ABUTMENT.
  - REPAIR CONC. HEADERS AT PIERS 1, 2 & 9.
  - CLEAN DRAINAGE SYSTEM AT PIERS 1, 2, 3, 4, 5 & 9.
  - REPLACE BRIDGE JOINTS AT PIERS 6, 7, 8, 10, 11, 12, 13 & 14.
  - REMOVE ARMORING DECK ANGLE AT END ABUTMENT.
- BIN 1093572 NB
- REMOVE ARMORING DECK ANGLE AND REPLACE BRIDGE JOINT AT BEGINNING ABUTMENT.
  - REPAIR CONC. HEADERS AT PIERS 1 & 2.
  - CLEAN DRAINAGE SYSTEM AT PIERS 1, 2, 3, 4 & 5.
  - REPLACE BRIDGE JOINTS AT PIERS 6, 7, 8, 9, 10, 11, 12, 13, & 14.
  - REMOVE ARMORING DECK ANGLE AT END ABUTMENT.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

INTERSTATE 481 SB & NB  
OVER  
CSX RAILROAD YARD  
BRIDGE JOINT DETAILS



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

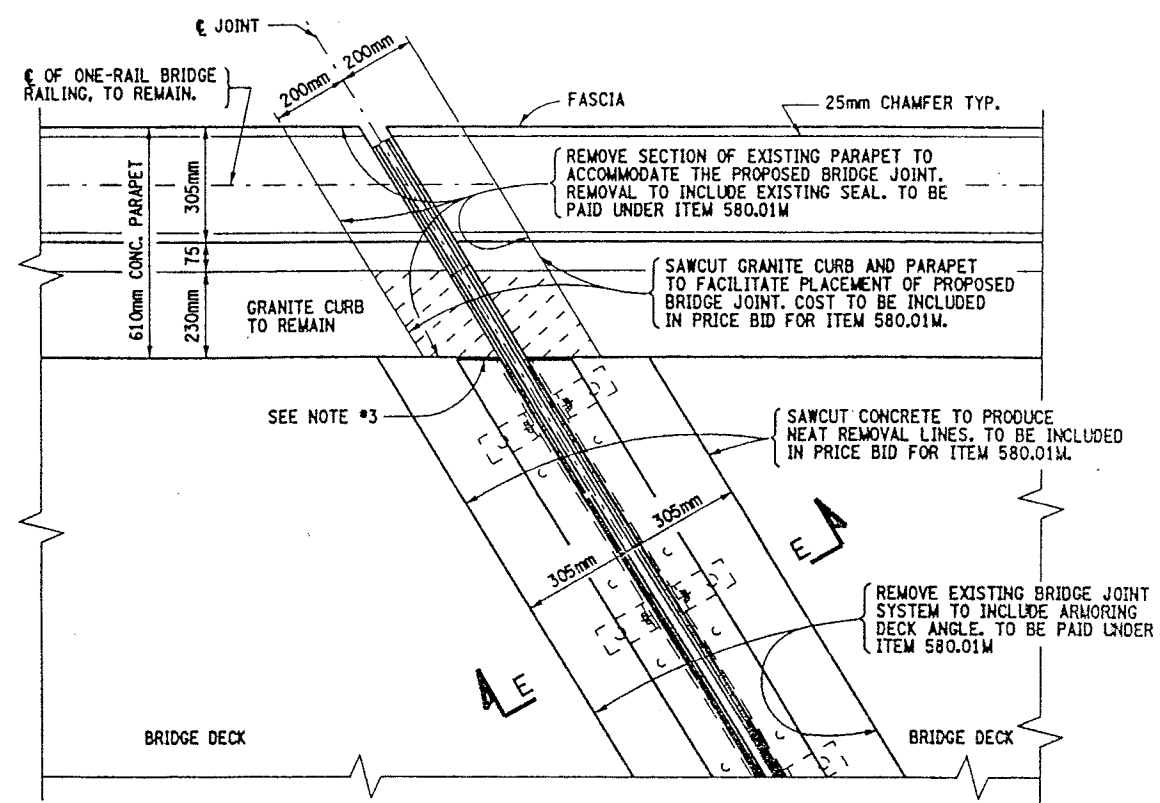
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ITEMS USED:

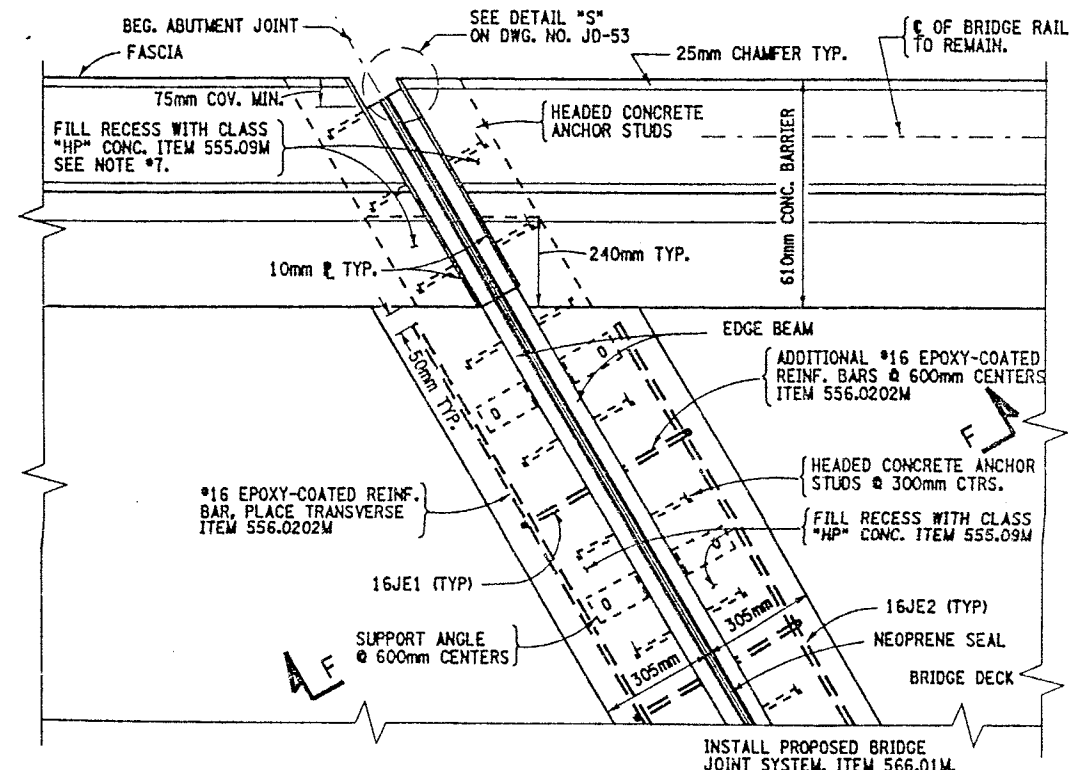
- |                  |  |
|------------------|--|
| ITEM 490.30M     | - MISC. COLD MILLING OF BIT. CONC. (SM)          |
| ITEM 08520.5014M | - SAWCUTTING BIT. CONC. (M)                      |
| ITEM 555.09M     | - STRUCT. CONCRETE, CLASS "HP" (CM)              |
| ITEM 556.0202M   | - EPOXY-COATED BAR REINFORCEMENT FOR STRUCT. (G) |
| ITEM 566.01M     | - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)         |
| ITEM 580.01M     | - REMOVAL OF STRUCT. CONCRETE (CM)               |



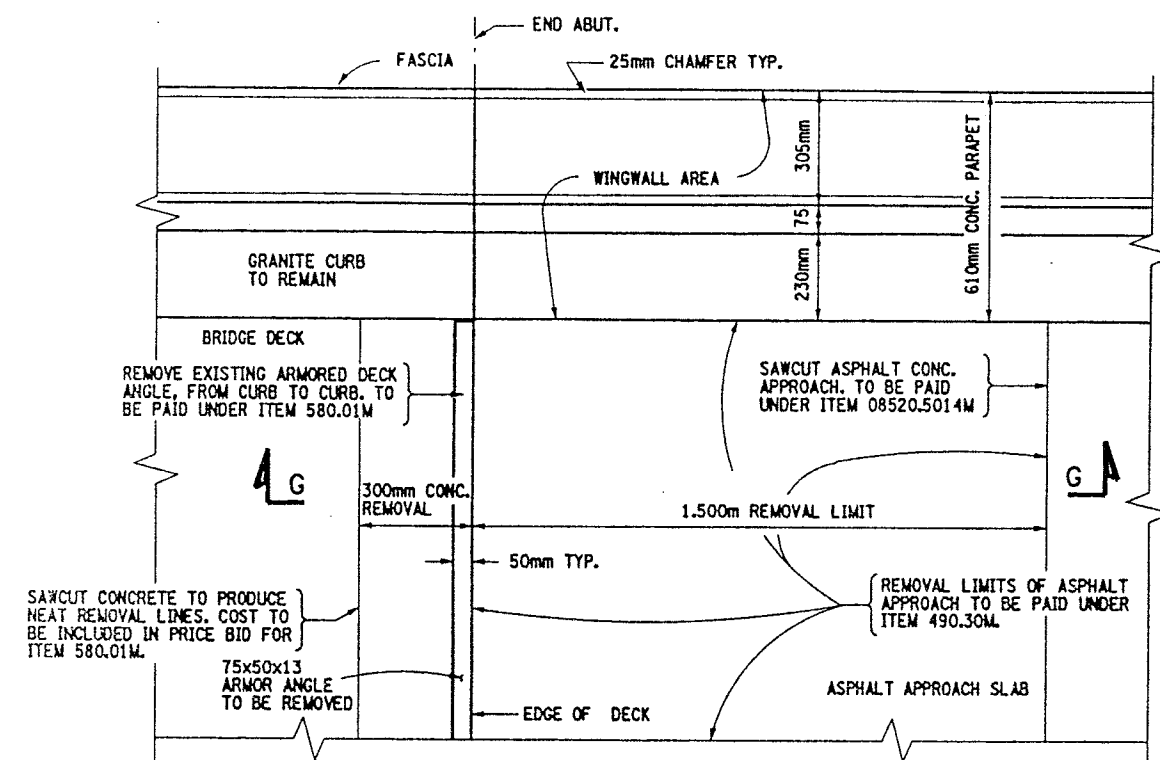
CHECKED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



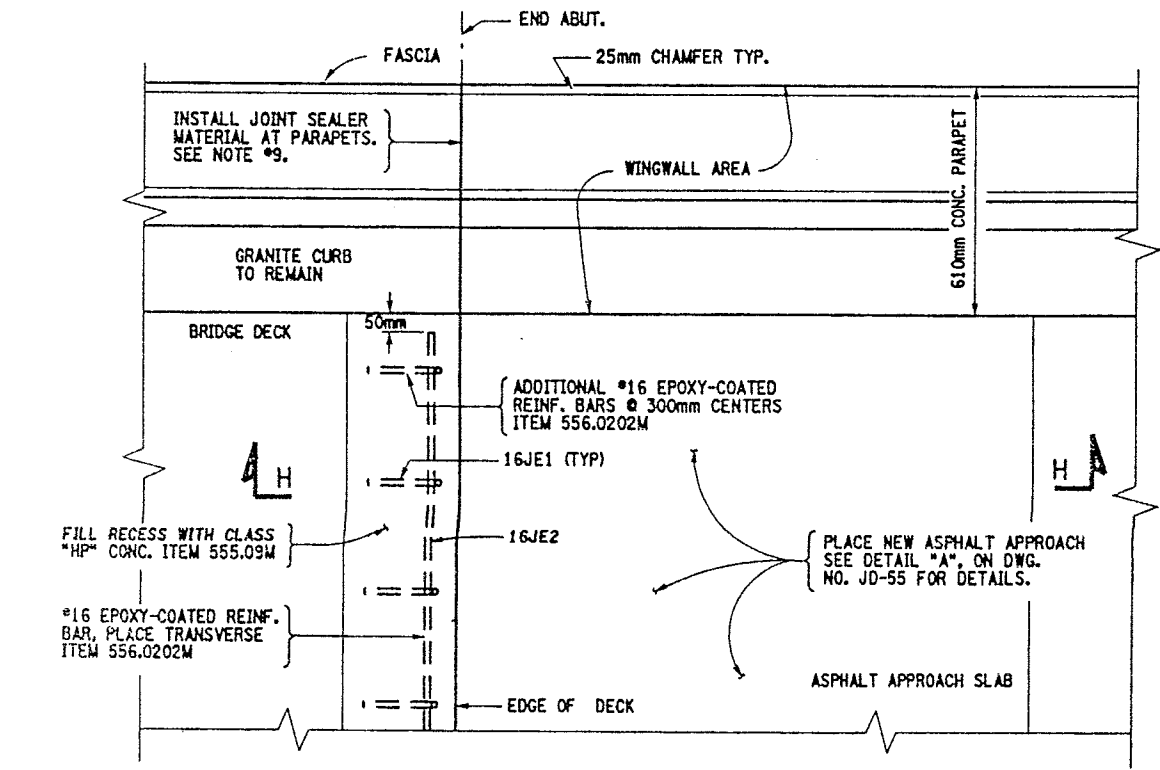
EXISTING PIER JOINT PLAN VIEW  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



PROPOSED PIER JOINT PLAN VIEW  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



EXISTING END ABUTMENT PLAN VIEW  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE



PROPOSED END ABUTMENT PLAN VIEW  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	418	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613		B.I.N. 1093571 & 1093572		

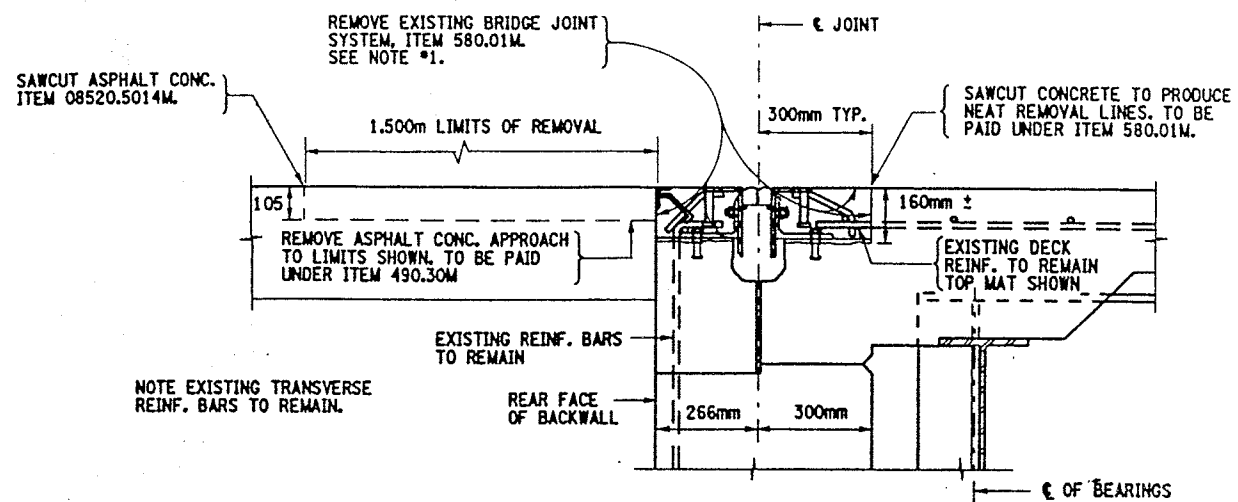
- NOTES:
- FOR SECTION VIEWS SEE DWG. NO. JD-55 & JD-56.
  - FOR ADDITIONAL INFORMATION REFER TO DWG. NO. JT-3 & JT-4, ALSO SEE ORIGINAL CONTRACT NUMBER FISH 70-7 AND CONTRACT NUMBER D251436 FOR PREVIOUS WORK.
  - THE EXISTING JOINTS AND ARMORING DECK ANGLES BUTT UP TO PARAPET. THE SEAL THRU THE PARAPET IS PLACED SEPARATE.
  - LEFT SIDE OF DECK SHOWN, RIGHT SIDE IDENTICAL.
  - SAW CUTTING OF CONCRETE AND GRANITE CURB SHALL BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
  - REFER TO DWG. NO. JD-24 FOR SINGLE CELL MODULAR JOINT DETAILS AND NOTES.
  - FILL RECESS AT PARAPET WITH CLASS "HP" CONCRETE RESTORE TO ORIGINAL DIMENSIONS.
  - BOTH STRUCTURES HAVE THE FOLLOWING SKEW ANGLES:  
BEGINNING ABUTMENT THROUGH PIER #9 HAVE A SKEW ANGLE OF 8°-43'-42". PIER #10 THROUGH END ABUTMENT HAVE A SKEW ANGLE OF 0°-0'-0".
  - THE INSTALLATION OF NEW JOINT SEALER MATERIAL AT END ABUTMENT PARAPETS SHALL MEET STANDARD SPECIF. 705-06. THE AREA SHALL BE CLEANED PRIOR TO PLACEMENT, TO THE SATISFACTION OF THE ENGINEER. COSTS TO BE INCLUDED IN PRICE BID FOR ITEM 555.09M.

- ITEMS USED:
- ITEM 490.30M - MISC. COLD MILLING OF BIT. CONC. (SM)
  - ITEM 08520.5014M - SAWCUTTING BIT. CONC. (M)
  - ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CM)
  - ITEM 556.0202M - EPOXY-COATED BAR REINFORCEMENT FOR STRUCT. (KQ)
  - ITEM 566.01M - MODULAR EXP. JOINT SYSTEM ONE-CELL (M)
  - ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

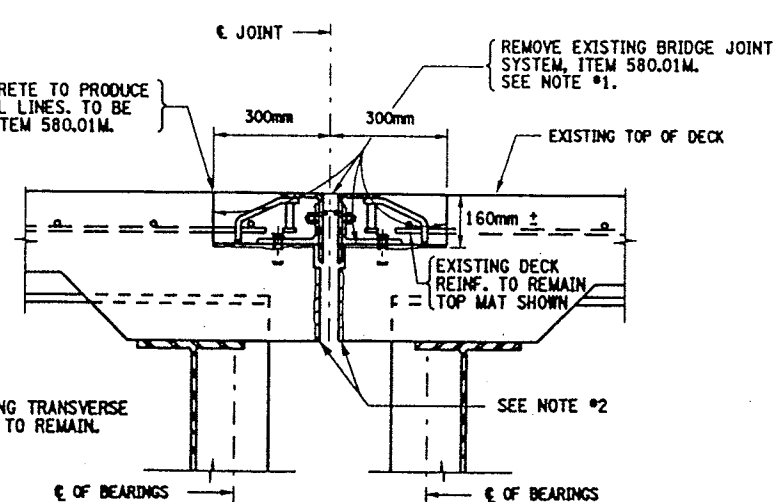
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED  
AS BUILT REVISIONS

SIGNATURE	DATE		
INTERSTATE 481 NB & SB OVER CSX RAILROAD YARD BRIDGE JOINT DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
FILENAME 305613AJJA1	REGION 3	DATE 10/02	DRAWING NO. JD-54

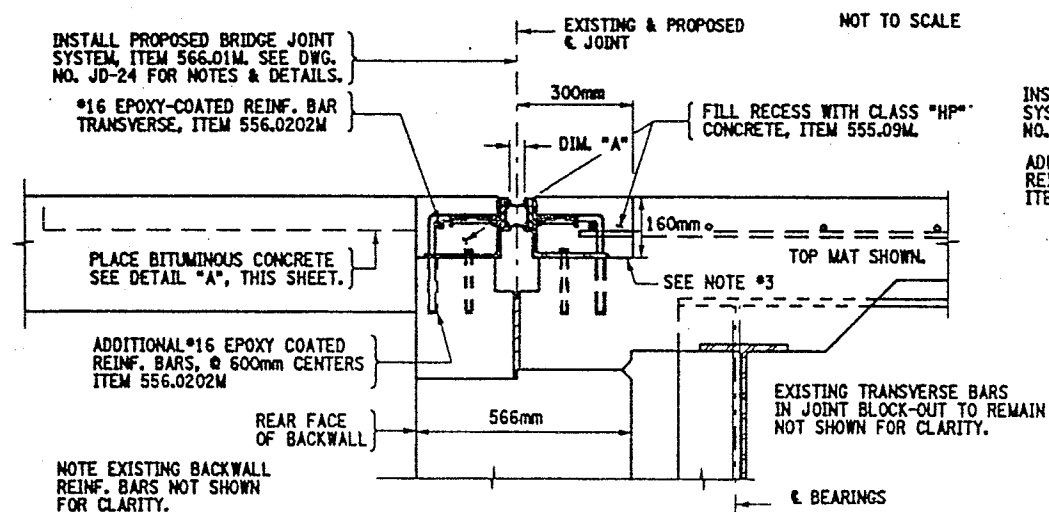
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DRAFTED BY  
ESTIMATED BY  
CHECKED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



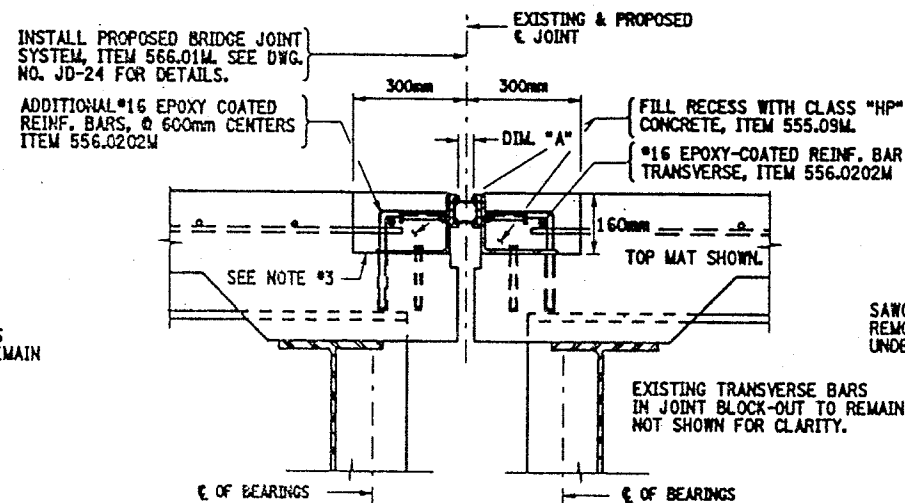
SECTION A-A  
EXISTING BEGINNING ABUTMENT JOINT  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.



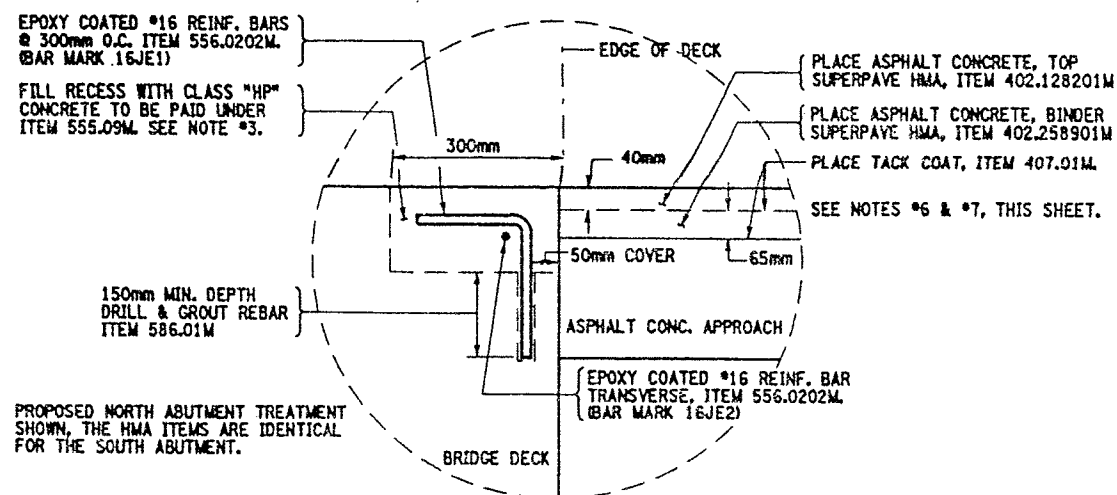
SECTION E-E  
EXISTING PIER JOINT TYPICAL  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14



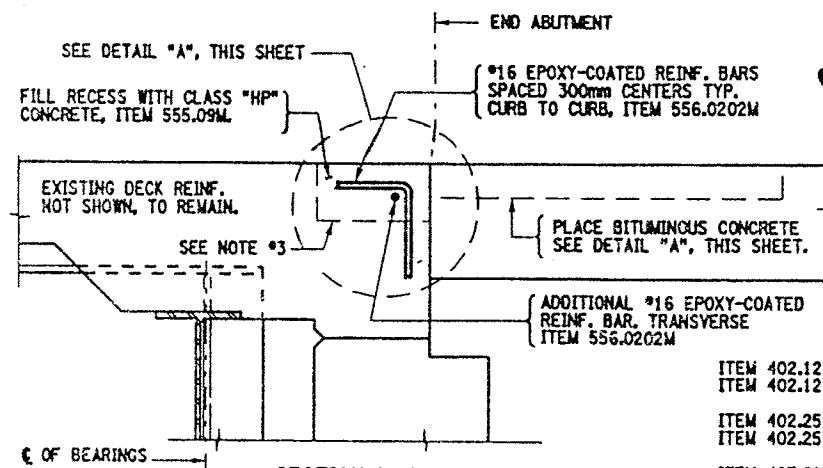
SECTION B-B  
PROPOSED BEGINNING ABUTMENT JOINT  
BIN 1093571 - SOUTH ABUT.  
BIN 1093572 - SOUTH ABUT.  
NOT TO SCALE



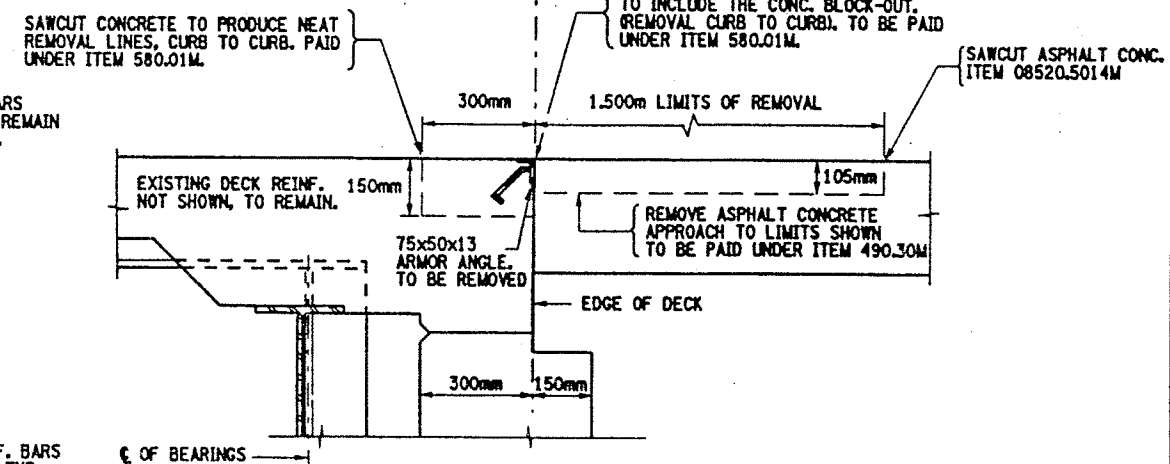
SECTION F-F  
PROPOSED PIER JOINT TYPICAL  
BIN 1093571 - PIERS 6, 7, 8, 10, 11, 12, 13 & 14  
BIN 1093572 - PIERS 6, 7, 8, 9, 10, 11, 12, 13 & 14  
NOT TO SCALE



DETAIL "A"  
NOT TO SCALE



SECTION H-H  
PROPOSED END ABUTMENT JOINT  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE



SECTION G-G  
EXISTING BEG. ABUTMENT JOINT  
BIN 1093571 - NORTH ABUTMENT  
BIN 1093572 - NORTH ABUTMENT  
NOT TO SCALE

ITEMS USED:

- ITEM 402.128201M - SUPERPAVE HMA F2, 12.5mm (QT)
- ITEM 402.128211M - PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.128201M (QD)
- ITEM 402.258901M - SUPERPAVE HMA F9, 25.0mm (QT)
- ITEM 402.258911M - PLANT PRODUCTION QUALITY ADJUSTMENT TO 402.258901M (QD)
- ITEM 407.01M - TACK COAT (Q)
- ITEM 490.30M - MISC. COLD MILL OF BITUMINOUS CONC. (SM)
- ITEM 08520.5014M - SAWCUTTING BIT. CONC. (Q)
- ITEM 555.09M - STRUCT. CONCRETE, CLASS "HP" (CND)
- ITEM 556.0202M - EPOXY-COATED BAR REINF. FOR STRUCT. (αQ)
- ITEM 566.01M - WOOD. EXP. JOINT SYSTEM ONE-CELL (QD)
- ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CND)
- ITEM 586.01M - DRILL & GROUT REINF. BARS (QMD)

NOTES:

- REMOVAL OF THE EXISTING BRIDGE JOINT SYSTEM TO LIMITS SHOWN OR AS DIRECTED BY ENGINEER. REMOVAL SHALL INCLUDE ANY ARMORING DECK ANGLE AND ANY ADDITIONAL REBAR WHICH IS WELDED TO THE SEGMENT ANGLE AND THE ORIGINAL REINFORCEMENT. COST TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
- REMOVAL OF A PORTION OF THE BRIDGE DECK MAY BE NECESSARY TO ALLOW FOR EXPANSION OF BRIDGE. AOB. SEE SECTION VIEW ON DWG. NO. JD-24. COST TO BE INCLUDED IN PRICE BID FOR ITEM 580.01M.
- RECESSES RECEIVING ITEM 555.09M. AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 105-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED, (PROJECT PROPOSAL).
- ACTUAL BRIDGE JOINT BLOCK-OUT DIMENSIONS MAY VARY. REMOVAL LIMITS SHALL BE TO EXISTING BLOCK-OUT LOCATIONS, OR AS DIRECTED BY THE ENGINEER.
- PROPOSED PARTIAL PLAN VIEWS, SEE DWG. NO. JD-53 & JD-54.
- ALL SURFACES OF HMA SHALL BE CLEANED AND TACK-COATED PRIOR TO HMA PLACEMENT. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 407.01M.
- ANY USE OF SUPERPAVE HMA ITEMS SHALL INCLUDE THE APPROPRIATE PLANT PRODUCTION QUALITY ADJUSTMENT ITEMS.

FED. ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	419	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.L.N. 305613		B.I.N. 1093571 & 1093572		

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

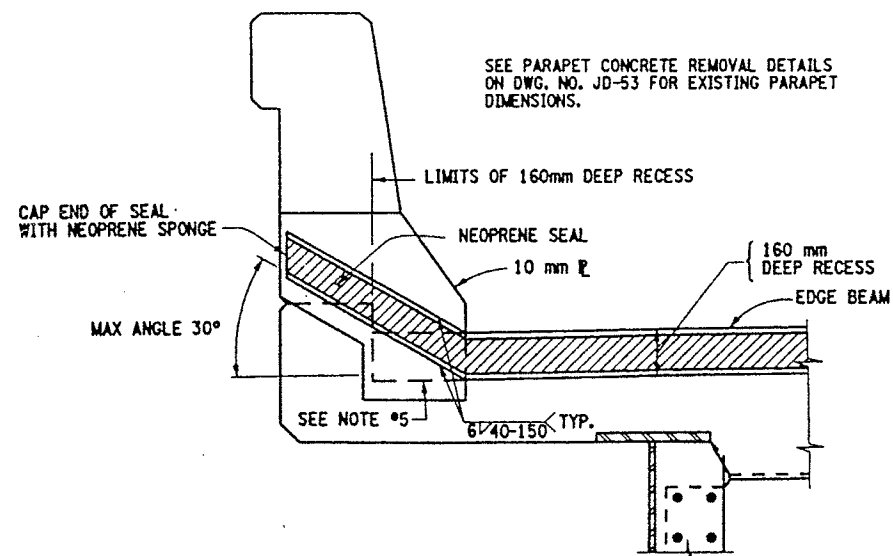
INTERSTATE 481 NB & SB  
OVER  
CSX RAILROAD YARD  
BRIDGE JOINT DETAILS



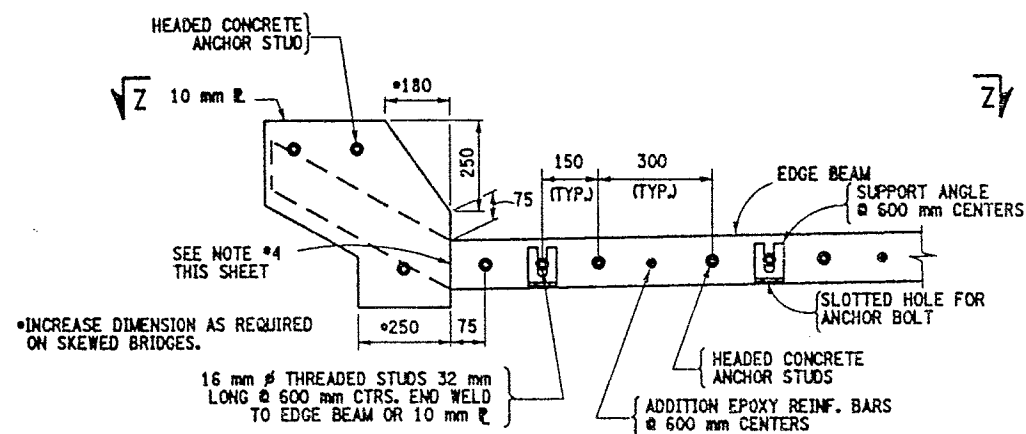
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
305613AJ.JA1	3	10/02	JD-55

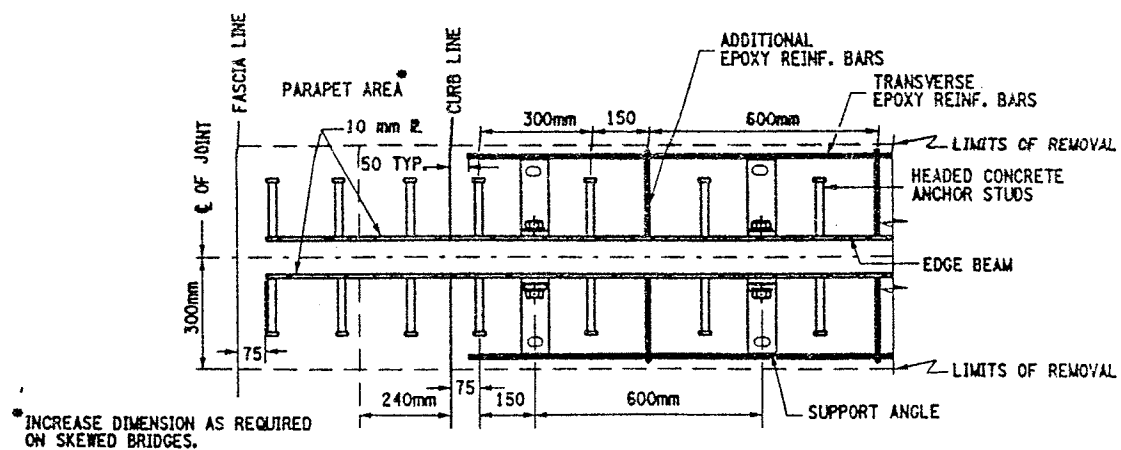
CHECKED BY  
DRAFTED BY  
ESTIMATED BY  
DESIGNED BY  
JOB MANAGER  
DESIGN SUPERVISOR



PROPOSED SEAL PLACEMENT TYPICAL  
SECTION C-C (CONCRETE TRAFFIC BARRIER)  
NOT TO SCALE

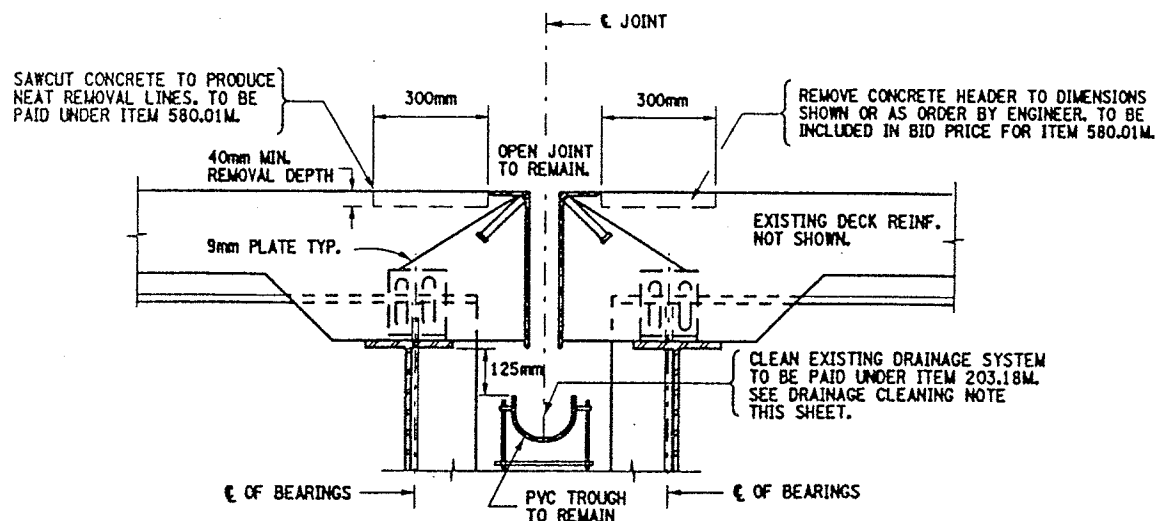


PROPOSED STEEL PLATE TYPICAL  
SECTION D-D (CONCRETE TRAFFIC BARRIER)  
(ONLY THE STEEL SHOWN)  
NOT TO SCALE



PLAN VIEW OF STEEL SECTION Z-Z  
TYPICAL SPACING FOR SINGLE CELL

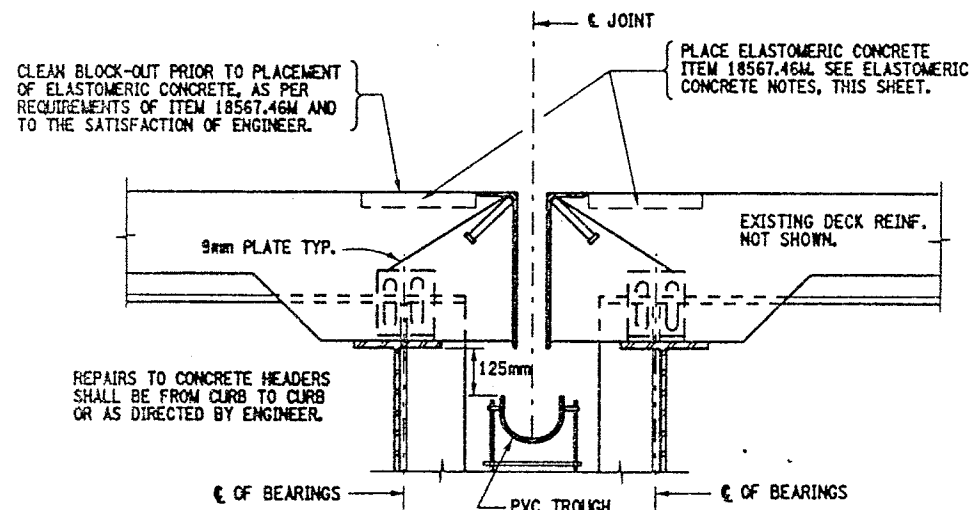
NOT TO SCALE



EXISTING OPEN JOINT AT PIERS  
(REPAIRS TO OPEN JOINT HEADERS)

BIN 1093571 - PIERS 1, 2, & 9  
BIN 1093572 - PIERS 1 & 2

NOT TO SCALE



PROPOSED OPEN JOINT AT PIERS  
(REPAIRS TO OPEN JOINT HEADERS)

BIN 1093571 - PIERS 1, 2, & 9  
BIN 1093572 - PIERS 1 & 2

NOT TO SCALE

#### ITEMS USED:

ITEM 203.18M - CLEAN CLOSED DRAINAGE SYSTEMS (M)  
ITEM 18567.46M - ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS (M)  
ITEM 580.01M - REMOVAL OF STRUCT. CONCRETE (CM)

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	D259214	420	432
BRIDGE REHABILITATION PROJECT (ELEMENT SPECIFIC)				
VARIOUS BRIDGES ON INTERSTATE 481				
TOWNS OF DEWITT AND CICERO				
ONONDAGA COUNTY				
P.I.N. 305613			B.I.N. 1093571 & 1093572	

#### NOTES:

- ALL NOTES & DETAILS ON DWG. NO. JD-24 SHALL APPLY.
- REFER TO DWG. NO. JD-53 & JD-54 FOR PROPOSED PARTIAL PLAN VIEWS.
- FOR CALCULATION OF "J" DIMENSION REFER TO DWG. NO. JD-24.
- ALL WELDS SHALL BE GROUND SMOOTH TO THE SATISFACTION OF THE ENGINEER, ON SEAL CONTACT SIDE OF EDGE BEAM.
- RECESSES RECEIVING ITEM 555.09M, AFTER SURFACE PREPARATION, THOROUGHLY WET THE CONCRETE SURFACES AND ALL POROUS SURFACES TO BE IN CONTACT WITH NEW CONCRETE FOR 12 HOURS. NOTE, THE USE OF MATERIAL SPECIF. 705-22 PORTLAND CEMENT MORTAR BONDING GROUT HAS BEEN ELIMINATED. (PROJECT PROPOSAL).

#### CLEAN DRAINAGE SYSTEM NOTE:

THE FOLLOWING CLOSED DRAINAGE SYSTEMS SHALL BE CLEANED UNDER THIS CONTRACT.

BIN 1093571 - PIERS 1, 2, 3, 4, 5, & 9  
BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6

NOTE, AT PIER #6 THE TYPE OF BRIDGE JOINT IS AN ARMORED JOINT WITH COMPRESSION SEAL. THE DOWNSPOUTS ARE CONNECTED TO THE BRIDGE SCUPPERS.

THE CLEANING OF THE EXISTING DRAINAGE SYSTEM (ITEM 203.18M) SHALL BE FROM HOPPER (FASCIA GIRDER) TO HOPPER (FASCIA GIRDER) AND SHALL INCLUDE THE PVC TROUGH AND THE ENTIRE DOWNSPOUT SYSTEM (DIA. OF DOWNSPOUTS VARY) FROM HOPPERS TO OUTLET. REFER TO DWG. NO. D017-1 THRU DWG. NO. D017-4 FOR DRAINAGE DETAILS AND PROPOSED MODIFICATIONS TO PIER DOWNSPOUTS.

FOR ESTIMATING THE QUANTITY FOR ITEM 203.18M THE FOLLOWING INFORMATION IS ASSUMED:

BIN 1093571 - PIERS 1, 2, 3, 4, 5, & 9  
(256 METERS TOTAL)

BIN 1093572 - PIERS 1, 2, 3, 4, 5 & 6  
(269 METERS TOTAL)

CONTRACTOR SHALL TAKE CARE WHEN PERFORMING CLEANING OPERATION NOT TO DAMAGE THE EXISTING DRAINAGE SYSTEM. ANY DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DEEMED NECESSARY BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

#### ELASTOMERIC CONCRETE NOTE:

- AN EXPERIENCED TECHNICAL REPRESENTATIVE EMPLOYED BY THE MANUFACTURER OF THE ELASTOMERIC CONCRETE SHALL BE PRESENT DURING ALL PHASES OF SUBSTRATE PREPARATION AND MATERIAL PLACEMENT.
- THE WATERTIGHT INTEGRITY TEST SHALL NOT BE REQUIRED FOR THE OPEN JOINT HEADER REPAIRS, WHERE ELASTOMERIC CONCRETE (ITEM 18567.46M) IS USED, FOR THESE TWO STRUCTURES ONLY.
- THE REMOVAL DIMENSIONS MAY BE ADJUSTED TO ENSURE THAT ALL DETERIORATED CONCRETE ADJACENT TO THE JOINT AREA IS ENCOMPASS. ABOVE.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE	DATE
INTERSTATE 481 NB & SB OVER CSX RAILROAD YARD BRIDGE JOINT DETAILS	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
FILENAME 305613AJ.JA1	REGION 3
DATE 10/02	DRAWING NO. JD-56



# Asbestos Sampling Survey

Location:

BIN 1-09357-2

Interstate Route 481 North Bound over Conrail

Prepared for:

New York State

Department of Transportation

PIN 3804.00.101

LaBella Project No. 97132

May, 1998

## Table of Contents

	Page
I. Project Summary .....	1
II. Site Description .....	1
III. Inspection Procedures .....	1
IV. Results .....	2
Certification .....	2

Figures and Table

## **I. Project Summary**

In accordance with conditions of Term Agreement D010010, LaBella Associates, P.C. conducted an asbestos sampling survey of the Interstate Route 481 North Bound Bridge over Conrail. Based on laboratory analyses of bulk samples collected, the following materials were determined to contain asbestos:

### **BIN 1-09357-2 Interstate Route 481 North Bound over Conrail**

<b>Type of Material</b>	<b>Estimated Amount</b>
Sheet Packing	7 Square Meters
Caulking Compound	45.7 Linear Meters

## **II. Site Description**

The Site is located in Onondaga County, New York. For the purpose of this report, the Site consists of the Interstate Route 481 North Bound Bridge over Conrail (See attached FIGURE 1 - Site Location Map).

## **III. Inspection Procedures**

The following procedures were used to obtain the data for this Report:

- A. A review of record drawings supplied by Region 3 personnel and a visual inspection of the subject structure were conducted to identify potential visible/accessible sources of asbestos-containing materials. Observations and notes were made to provide a description of the structure, and an estimate of the approximate amount, length, or area of ACM present.
- B. Physical or operational constraints which might affect the removal of the ACM were identified and reported.
- C. Bulk samples of suspected ACM were collected during the site inspection of the subject structure. Samples were taken from each homogeneous area that may contain ACM.
- D. Samples were submitted for analysis. Preliminary PLM analyses of NOB materials were performed by LaBella Laboratories, a NYSDOH approved laboratory, to determine the presence and percentage of asbestos in each sample. TEM analyses of NOB materials, if necessary, were performed by EMSL Analytical, Inc. or New York Testing Laboratories, Inc.
- E. Lab results were used to determine the approximate location, type, and amount of the verified ACM.
- F. A drawing of the structure at the Site was created, in order to show sample locations and the approximate locations and amounts of confirmed ACM observed in accessible locations.



Only accessible areas were inspected. Inaccessible areas, such as areas within the bridge or the approaches to the bridge were not included in this inspection. No investigation was conducted by LaBella Associates to determine the presence of underground utilities on or in the immediate vicinity of the Site. Actual sample locations are shown in the attached FIGURE 2. Results of bulk sample analyses are tabulated in the attached TABLE.

## **IV. Results**

### **BIN 1-09357-2 Interstate Route 481 North Bound over Conrail**

#### **Sheet Packing**

Asbestos-containing sheet packing is located between the tops of the abutments and the deck slab at both ends of the bridge. Most of this material is presently covered by the bridge deck, although the edges of this sheet packing are exposed and visible at various locations.

It is estimated that the total amount of this asbestos-containing sheet packing material on the bridge is approximately 7 square meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this asbestos-containing sheet packing are shown in FIGURE 2.

#### **Caulking Compound**

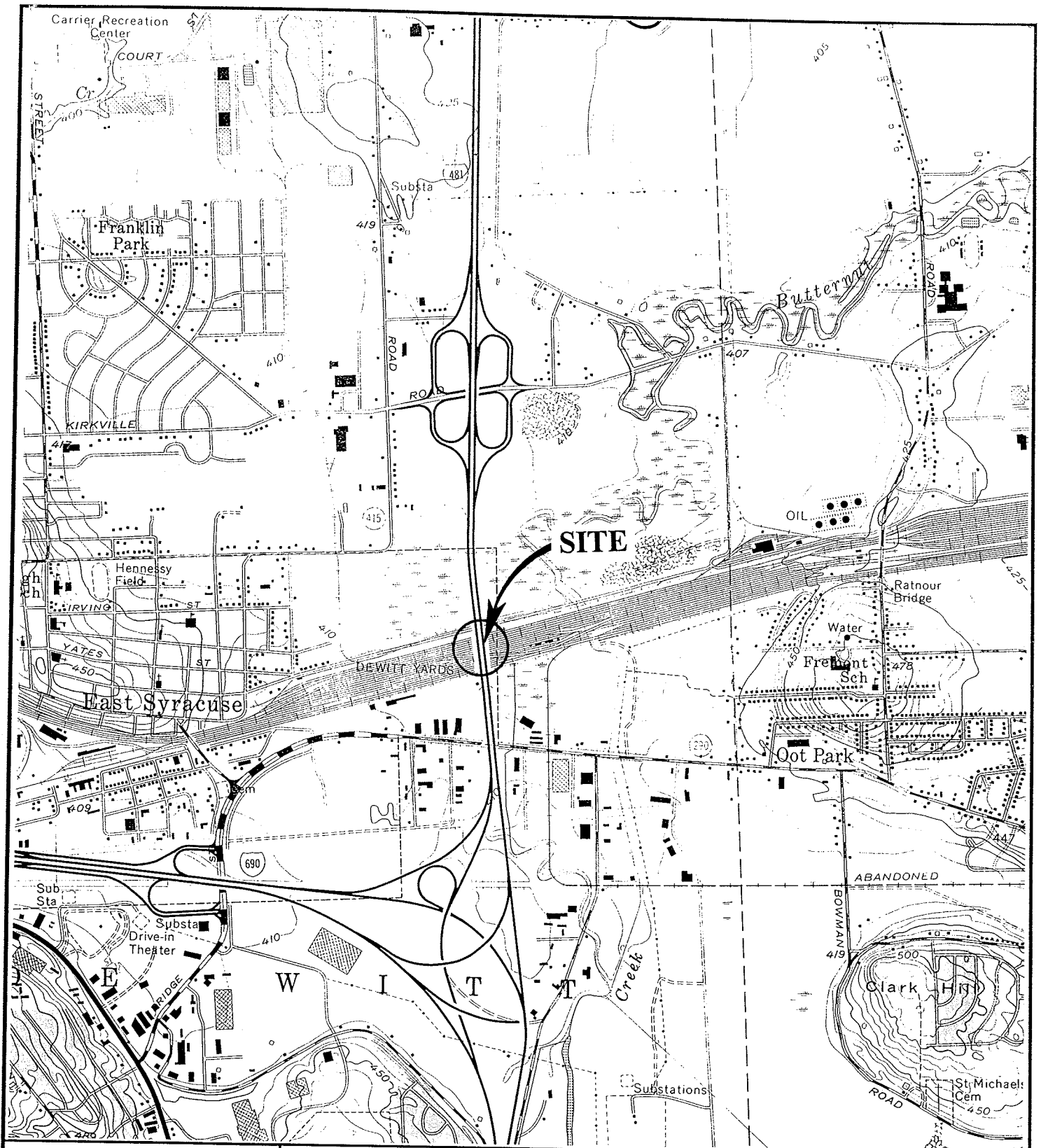
Asbestos-containing caulking compound is located around some of the guide rail base plates on both parapets on the bridge. It is estimated that the total amount of this caulking compound is approximately 45.7 linear meters. This estimate is based on field measurements taken at the time of the site visit.

The approximate locations of this material are shown in the attached FIGURE 2. Analytical results of bulk samples collected are summarized in the attached TABLE.

## **Certification**

LaBella Associates, P.C. certifies the accuracy of this report, to the best of our knowledge, based on the information collected as described in the Inspection Procedures Section of this investigation.

# Figures & Table



**FIGURE 1**  
**Site Location Map**

**I-481 NORTH  
 BOUND OVER  
 CONRAIL**

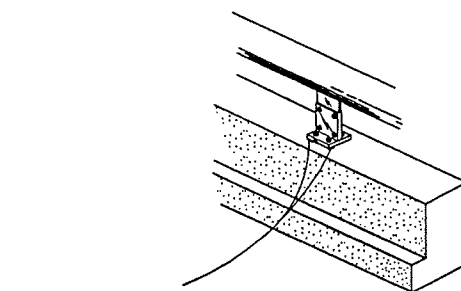
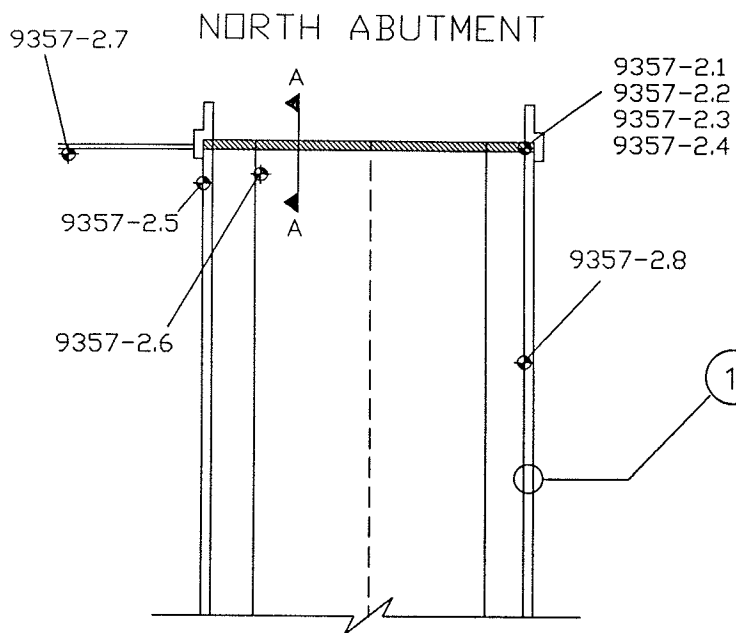
**BIN 1-09357-2**

**ABELLA**

SCALE: 1" = 2000'

PROJECT NO. 97132

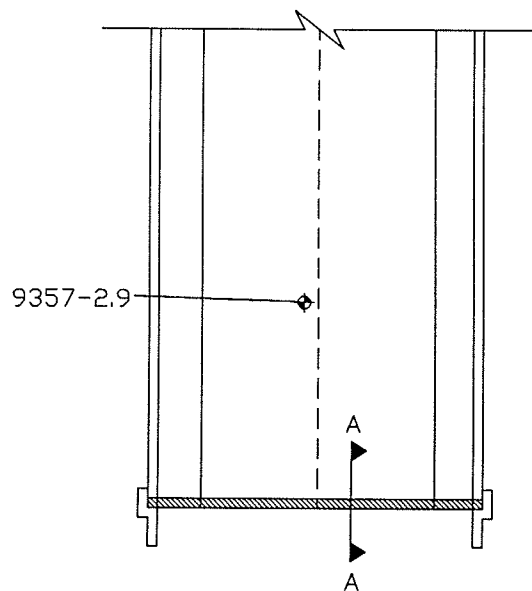




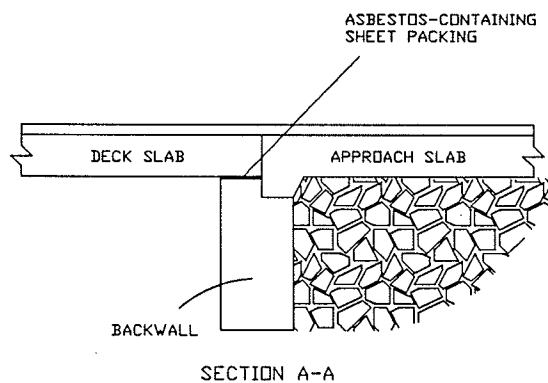
1 TYPICAL RAILING/  
PARAPET DETAIL

SPOTTY APPLICATION OF  
ASBESTOS-CONTAINING CAULKING  
COMPOUND AROUND SOME  
GUIDE RAIL BASE PLATES

I-481 NORTH BOUND  
BIN 1-09357-2



SOUTH ABUTMENT



## LEGEND

◆ 9357-2.1 SAMPLE LOCATION

▨ ASBESTOS-CONTAINING  
SHEET PACKING



PROJECT TITLE: ASBESTOS SAMPLING SURVEY  
16 BRIDGES,  
ONONDAGA COUNTY, NEW YORK

FIGURE 2: I-481 NORTH BOUND  
OVER CONRAIL  
BIN 1-09357-2  
SAMPLE LOCATIONS AND CONFIRMED ACM

PROJECT NO. 97132

PIN 3804.00.101

NOT TO SCALE

DATE: MAY, 1998

# Bulk Sample Results Table

Asbestos Sampling Survey  
BIN 1-09357-2  
Interstate Route 481 North Bound over Conrail  
Onondaga County, New York  
LaBella Project # 97132  
PIN 3804.00.101

Sample #	Sample Location	Type of Material	Results % Asbestos	Amount of Material	Specification Item No.
9357-2.1	North End of Bridge Between Deck & Abutment	Sheet Packing	32 % Chrysotile	7 Square Meters	15202.0627 (M)
9357-2.2	North End of Bridge Between Deck & Wing Wall	Joint Filler	None Detected	N/A	N/A
9357-2.3	North End of Bridge Beneath Bearing	Bearing Pad	None Detected	N/A	N/A
9357-2.4	North End of Bridge on Abutment	Masonry Coating	None Detected	N/A	N/A
9357-2.5	North End of Bridge, on West I-Beam	Green Paint	None Detected	N/A	N/A
9357-2.6	North End of Bridge, on Inside I-Beam	Green Paint	None Detected	N/A	N/A
9357-2.7	North End of Bridge at Joint & Retaining Wall	Caulking Compound	None Detected	N/A	N/A
9357-2.8	North End of Bridge at Base of Guide Rail	Gray Caulking Compound	4 % Chrysotile	45.7 Linear Meters	15202.0629 (M)
9357-2.9	North End of Bridge on Ground Below 2 <sup>nd</sup> Span	Green Paint	None Detected	N/A	N/A

## **BIN 1093682**

I-81 (Former I-481) NB over I-90



## BIN 1093682

Location: I-481 NB over NYS Thruway (I-90)

NYSDOT D031085 PIN 3501.60 - I-81 Viaduct Replacement or New Urban Arterial

City of Syracuse, Onondaga County

Bridge Asbestos Assessment Results

Asbestos containing materials have been identified on this bridge.

ITEM	DESCRIPTION	QUANTITY
210.481201	Removal and Disposal of Miscellaneous ACM (BV14) – Sheet Packing	86 SQ FT
210.481202	Removal and Disposal of Miscellaneous ACM (BV14) – Abutment Caulk (abutment joint)	137 SQ FT

The following summarizes the results of the most recent asbestos survey and record plan review.

### Watts Inspection Findings (January 2014)

A bridge inspection was completed on 1/16/2014 and the following suspect ACMs were identified and sampled:

- Green girder paint
- Beige/grey masonry paint
- Compressed asbestos sheet packing
- Grey/brown caulk at top of abutment wall (south side)
- Bearing pad

Laboratory analysis indicated that the sheet packing and abutment caulk sampled by Watts was confirmed positive for asbestos.

### Review of Bridge Record Plans

The record plans (FISH 70-7, D250094, D258367) were reviewed in support of the field survey.

The following suspect ACM was identified:

- Compressed asbestos sheet packing



# Watts Architecture & Engineering

## BRIDGE ASBESTOS FIELD INSPECTION FORM

2/20/14: finished

BIN Number/Location: 1093682 481 NB over Thruway 90

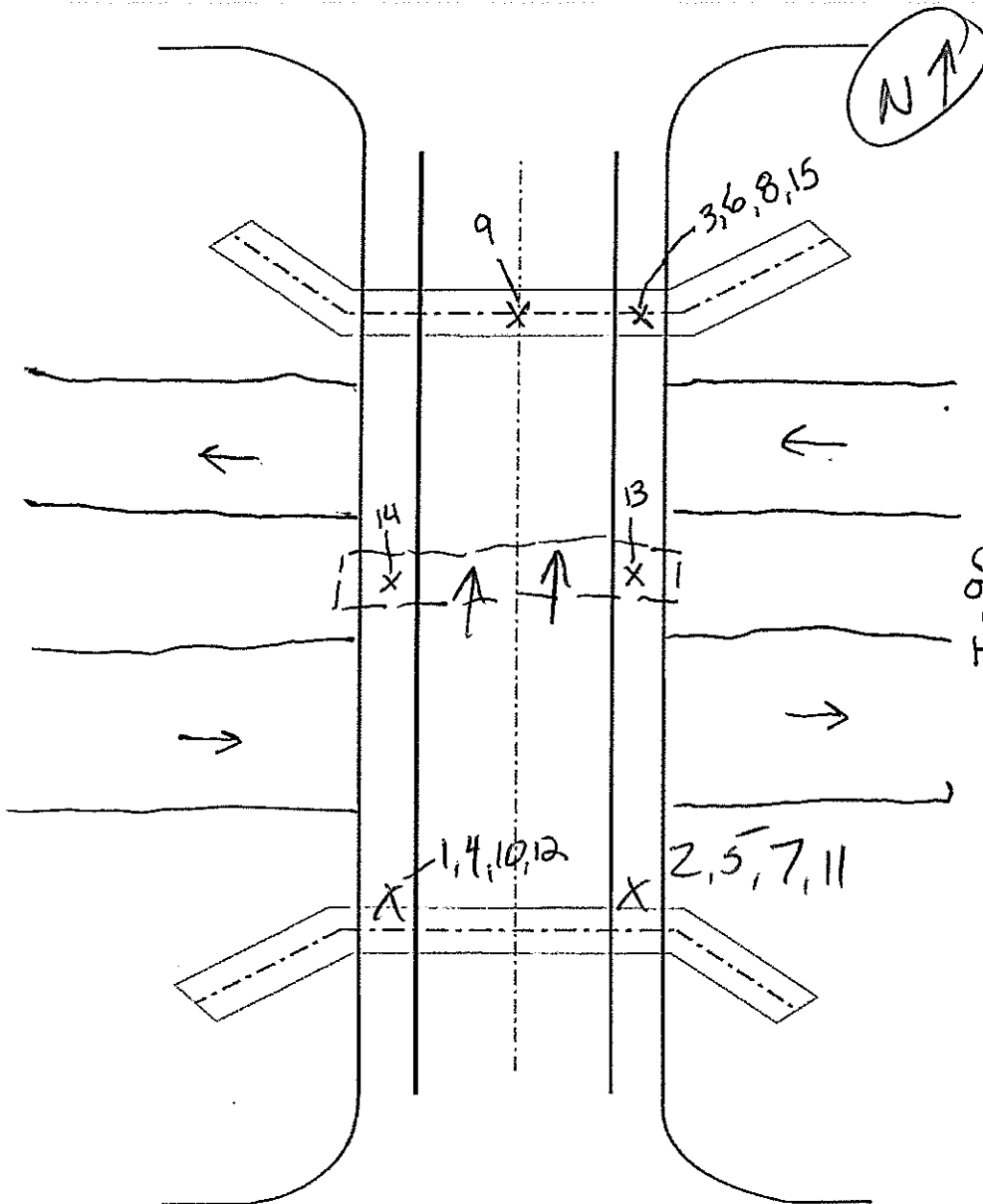
Inspection Date: 1/16/14 (south abutment only)

Project Name: I-81 Viaduct Replacement or New Urban Arterial

PIN Number: PIN: 3501.60, D031085

Inspector(s): S. Matthews

Watts Project No: 13092



### Field Inspection

#### Checklist

##### Item

Item	Investigated	Present	Sampled	
Girder Paint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1-3
Truss Paint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Abutment Coating (Paint)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4-6
Abutment Caulk	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10-12
Abut. Exp. Jt. Filler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Headwall Sheet Packing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7-9
Bearing Pad <i>N/A</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13-15
Transite Pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pipe Coating/Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Scupper Wtr. Proof	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dum Dum Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Deck Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Deck Exp. Jt. Filler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Approach Sheet Packing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Railing Paint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Railing Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sidewalk Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lighting Pole Caulk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Masonry Castings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Miscellaneous Tar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SAMPLE LOCATION PLAN VIEW - N.T.S.

- Notes:
- Caulk on south abutment in joint where sheetpacking is.
  - Sheet packing sampled
  - One layer type of masonry coating
  - Bridge paint is newer
  - Topside inspected and no ~~ACM~~ suspect ACM present

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>[buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141400864

CustomerID: WATT50A

CustomerPO:

ProjectID:

Attn: **Scott Matthews**  
**Watts Architecture & Engineering**  
**2610 Salina Street**  
**Syracuse, NY 13205**

Phone: (315) 443-8611  
 Fax: (315) 443-8605  
 Received: 03/03/14 10:00 AM  
 Analysis Date: 3/7/2014  
 Collected: 1/16/2014

Project: **13092 / I81 Viaduct Replacement or New Urban Arterial: BIN 1093682 (481 NB over Thruway 90)**

**Test Report:Asbestos Analysis of Bulk Material**

Test	Analyzed Date	Color	Non Asbestos		Asbestos
			Fibrous	Non-Fibrous	
<b>Sample ID</b> 1093682-1 141400864-0001		<b>Description</b> green girder paint <b>Homogeneity</b> Heterogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	3/6/2014	Gray /Green			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	3/7/2014	Gray /Green			<b>None Detected</b>
<b>Sample ID</b> 1093682-2 141400864-0002		<b>Description</b> green girder paint <b>Homogeneity</b> Heterogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	3/6/2014	Gray /Green			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	3/7/2014	Gray /Green			<b>None Detected</b>
<b>Sample ID</b> 1093682-3 141400864-0003		<b>Description</b> green girder paint <b>Homogeneity</b> Heterogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	3/6/2014	Gray /Green			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	3/7/2014	Gray /Green			<b>None Detected</b>
<b>Sample ID</b> 1093682-4 141400864-0004		<b>Description</b> beige/gray masonry paint <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	3/6/2014	Gray			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	3/7/2014	Gray			<b>None Detected</b>
<b>Sample ID</b> 1093682-5 141400864-0005		<b>Description</b> beige/gray masonry paint <b>Homogeneity</b> Homogeneous			
<b>PLM NYS 198.1 Friable</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 VCM</b>					<b>Not Analyzed</b>
<b>PLM NYS 198.6 NOB</b>	3/6/2014	Gray			<b>Inconclusive: None Detected</b>
<b>TEM NYS 198.4 NOB</b>	3/7/2014	Gray			<b>None Detected</b>



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490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>[buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141400864

CustomerID: WATT50A

CustomerPO:

ProjectID:

**Test Report:Asbestos Analysis of Bulk Material**

		Non Asbestos			Asbestos
Test		Color	Fibrous	Non-Fibrous	
Sample ID	1093682-6	Description	beige/gray masonry paint		
	141400864-0006	Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Gray			None Detected
Sample ID	1093682-7	Description	sheet packing		
	141400864-0007	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Gray			32.3% Chrysotile
					32.3% Total
TEM NYS 198.4 NOB	3/7/2014				Not Analyzed
Sample ID	1093682-8	Description	sheet packing		
	141400864-0008	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Black			24.2% Chrysotile
					24.2% Total
TEM NYS 198.4 NOB	3/7/2014				Not Analyzed
Sample ID	1093682-9	Description	sheet packing		
	141400864-0009	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Black			26.6% Chrysotile
					26.6% Total
TEM NYS 198.4 NOB	3/7/2014				Not Analyzed
Sample ID	1093682-10	Description	brown/gray caulk at top of abutment wall		
	141400864-0010	Homogeneity	Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Brown			Inconclusive: None Detected
TEM NYS 198.4 NOB	3/7/2014	Brown			1.3% Chrysotile
					1.3% Total

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>[buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141400864

CustomerID: WATT50A

CustomerPO:

ProjectID:

**Test Report:Asbestos Analysis of Bulk Material**

Test		Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	1093682-11 141400864-0011	Description Homogeneity	brown/gray caulk at top of abutment wall Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Brown	Inconclusive: None Detected		
TEM NYS 198.4 NOB	3/7/2014	Brown	<1% Chrysotile <1% Total		
Sample ID	1093682-12 141400864-0012	Description Homogeneity	brown/gray caulk at top of abutment wall Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Tan	Inconclusive: None Detected		
TEM NYS 198.4 NOB	3/7/2014	Tan	2.4% Chrysotile 2.4% Total		
Sample ID	1093682-13 141400864-0013	Description Homogeneity	bearing pad Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Black /Green	Inconclusive: None Detected		
TEM NYS 198.4 NOB	3/7/2014	Black /Green	None Detected		
Sample ID	1093682-14 141400864-0014	Description Homogeneity	bearing pad Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Black /Green	Inconclusive: None Detected		
TEM NYS 198.4 NOB	3/7/2014	Black /Green	None Detected		
Sample ID	1093682-15 141400864-0015	Description Homogeneity	bearing pad Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	3/6/2014	Tan /Green	Inconclusive: None Detected		
TEM NYS 198.4 NOB	3/7/2014	Tan /Green	None Detected		

**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone/Fax: (716) 651-0030 / (716) 651-0394

<http://www.EMSL.com>[buffalolab@emsl.com](mailto:buffalolab@emsl.com)

EMSL Order: 141400864

CustomerID: WATT50A

CustomerPO:

ProjectID:

**Test Report: Asbestos Analysis of Bulk Material**

Test	Color	Non Asbestos		Asbestos
		Fibrous	Non-Fibrous	

Analyst(s)

Rhonda McGeeRhonda McGee, Laboratory Manager  
or other approved signatory

NOB = Non Friable Organically Bound    N/A = Not Applicable    VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.

All samples examined for the presence of vermiculite when analyzed via NYS 198.1.

-NYS Guidelines for Vermiculite containing samples are available at [http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance\\_Rev070913.pdf](http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf)

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. Depew, NY NYS ELAP 11606



WATTS ARCHITECTURE & ENGINEERING  
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141400864

Page: 1 of 2  
Date: 1/14/14

Client: Parsons  
Project: 181 Viaduct Replacement or New Urban Arterial  
Building / Location: BIN 1093602 481 NB over Thruway 90  
Contact: Scott Matthews at (315) 443-8611  
Email Preliminary Results to: smatthews@watts-ae.com  
Mail Invoice to: Accounts Payable  
Watts Architecture & Engineering  
95 Perry Street, Buffalo, NY 14203

Watts Project No.: 13092  
Turnaround Requested: 3 Hr. 48 Hr.  
Analysis Requested: 6 Hr. 72 Hr.  
PLM X TEM X 12 Hr. X 5 Day  
24 Hr. 6-10 Day

Mail Report to: Scott Matthews  
Watts Architecture & Engineering  
2610 S Salina Street, Syracuse, NY 13210  
7 day as per  
Matt. @ 3/3/14

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
<del>1043602</del> -1	Green girder paint	Southwest corner		
1093602-2	" "	Southeast corner		
3	" "	Northeast corner		
4	Beige/gray masonry paint	Southwest corner		
5	" "	Southeast corner		
6	" "	Northeast corner		
7	Sheet piling	Southeast corner		
8	" "	Northeast corner		
9	" "	North abutment - middle		
10	Brown/Gray caulk at top of abutment wall	Southwest corner		
11	" "	Southeast corner		
12	" "	Southwest corner		

Sampled By: Scott Matthews Date: 1-16-14 Received By: RECEIVED Date: KF  
Relinquished By: Scott Matthews to FedEx Date: 2-28-14 Received By: MAR 13 2014 Date: 10AM  
Comments: BY: [Signature]



WATTS ARCHITECTURE & ENGINEERING  
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

141400864

Page: 2 of 2  
Date: 1/16/14

Client: Parsons  
Project: I81 Viaduct Replacement or New Urban Arterial  
Building / Location: BIN 1043682 481 NB over 90  
Contact: Scott Matthews at (315) 443-8611  
Email Preliminary Results to: smatthews@watts-ae.com  
Mail Invoice to: Accounts Payable  
Watts Architecture & Engineering  
95 Perry Street, Buffalo, NY 14203  
Mail Report to:

Watts Project No.: 13092		
Turnaround Requested:	3 Hr.	48 Hr.
Analysis Requested:	6 Hr.	72 Hr.
PLM <u>X</u> TEM <u>X</u>	12 Hr.	<del>5 Day</del>
	24 Hr.	6-10 Day

Mail Report to: Scott Matthews  
Watts Architecture & Engineering  
2610 S Salina Street, Syracuse, NY 13210

[illegible]

Sampled By: Scott Matthews Date: 1-16-14 Received By: RECEIVED Date: FX  
Relinquished By: Scott Matthews to FedEx Date: 2-28-14 Received By: MAR 03 2014 Date: 10 am  
Comments:

Comments:



## **BIN 1093682 Inspection Photos**

I-81 (Former I-481) NB over I-90

Photo 1



Photo 2



Photo 3



Photo 4





Photo 5



Photo 6





FED. RD. DIST. NO.	STATE	FEDERAL AID PROJ. NO.	SHEET NO.	TOT. SHEETS
1	NEW YORK	1-481-2(116)	240R	240

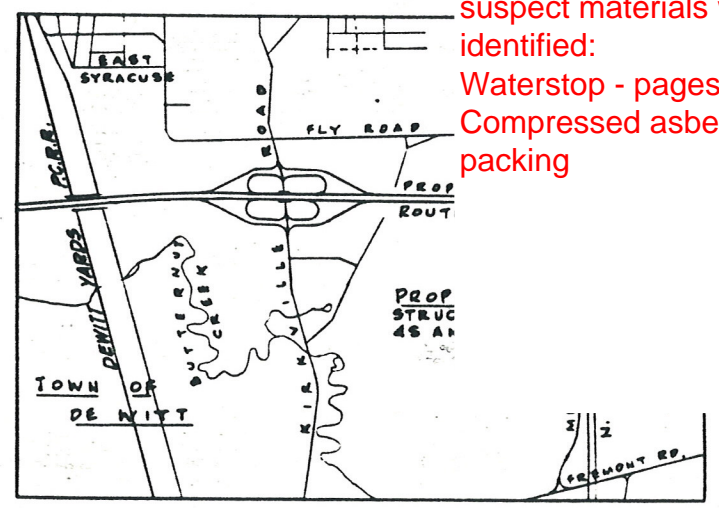
INTERSTATE ROUTE CONNECTION 570  
BUTTERNUT INTERCHANGE-COLLAMER

ONONDAGA COUNTY  
12/19/90  
11/88  
B50  
11/07/94  
9/11-86  
11/14/92  
TEAM LEADER  
1/14/90  
1/14/90  
1/14/90

### ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	BRIDGE NO. 4S	BRIDGE NO. 4N
28F-B	Selected Granular Fill	C.Y.	3435	3435
2VJ-D	Selected Fill (Bridge Foundation)	C.Y.	4950	4950
2UF	Underdrain Filter	C.Y.	12	15
5B	Structure Excavation	C.Y.	333	335
11H-G	Perforated Cor. Metal Underdrain-6d. Bgs.	L.F.	220	220
18	Class A-Concrete for Structures	C.Y.	57	60
18MA	Class A-Conc. for Struct. (Mono. Bridge Slab)	S.F.	8952	8960
20	Class B-Concrete for Structures	C.Y.	560	571
24A	Bagged Screened Aggregate	C.Y.	83	85
28	Bar Reinforcement for Structures	Lb.	117435	117675
28B	Stud Shear Connectors	Ea.	2420	2420
29	Structural Steel	Lb.	242800	242800
37S(2)	Steel Bridge Railing (2 Rail)	L.F.	538	540
61	Bituminous Material	Gal.	132	135
79B	Concrete Block Paving	S.Y.	322	325
94SBV	Stone Curb (Bridge Types) Granite	L.F.	701	705
124	Sodding	S.Y.	121	125
363I	Epoxy Protective Coating for Conc.	S.F.	931	935
1WPS	Watering Plants and Sod	Msq.	2.4	4.0
85TAS	Temporary Sheet Piling	S.F.	928	930

Record plans were reviewed on 12-30-13 by GA. The following suspect materials were identified:  
Waterstop - pages 3, 4, 5 and 8  
Compressed asbestos sheet packing



LOCATION PLAN  
Scale 1"=2000'

### NOTES

1. For General Notes see Sheet No. 124.
2. For foundation treatment see Shf. No. 241.
3. For Curbing and Drainage Details at ends of bridge see Sheet No. 127.
4. Indicates location of borings.
5. The structural slab on this structure shall be formed with permanent corrugated metal forms for concrete decks.

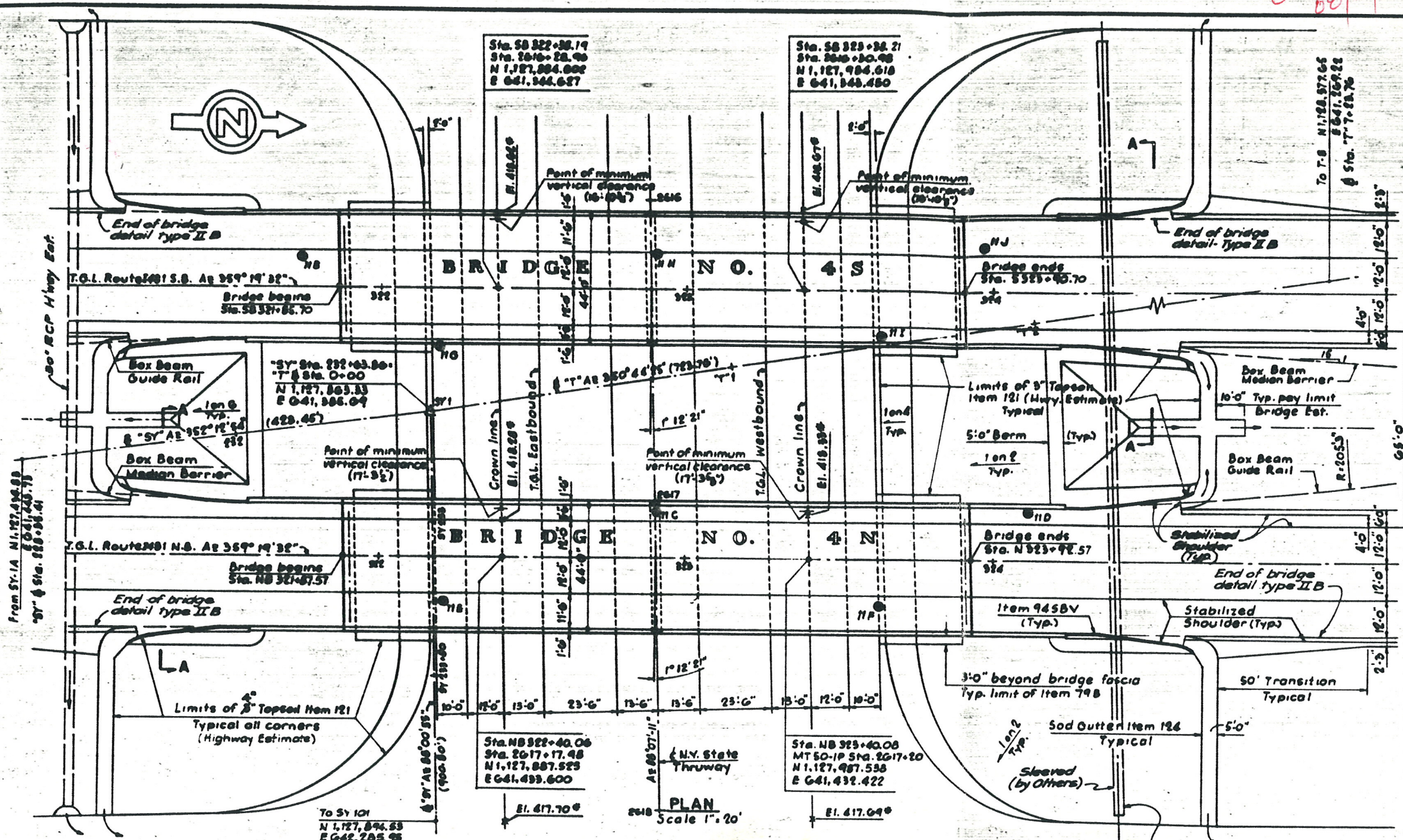
As Built-Revision  
Change in topsoil depth

BIN 1093681 & 1093682

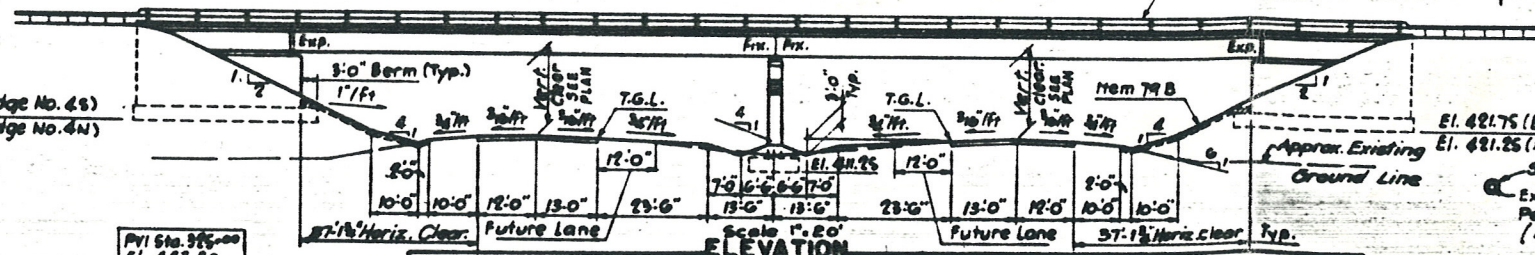
F.A.I. 481

BRIDGE NO. 4S & 4N  
I 481 OVER N.Y. STATE THRUWAY  
GENERAL PLAN

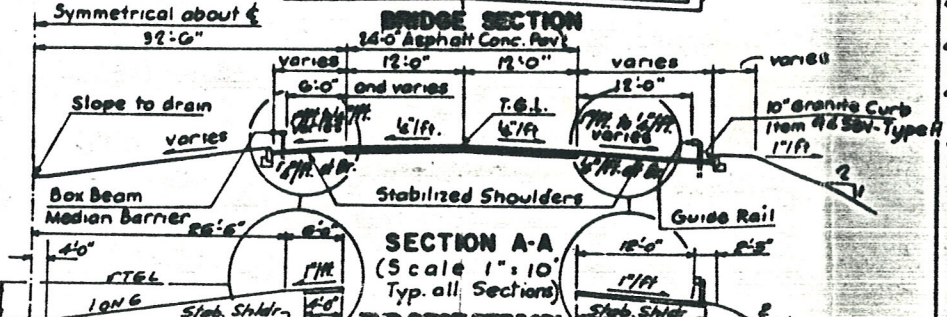
DESIGNED BY	SCALE	DATE	SHEET NO.
9095-03	As shown	8/15/70	240



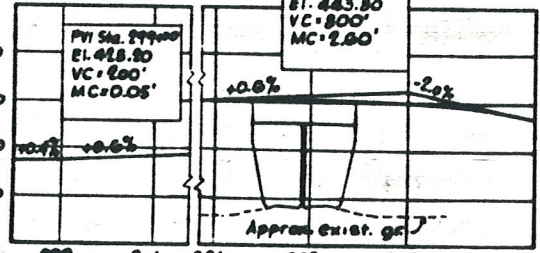
PLAN  
Scale 1"=20'



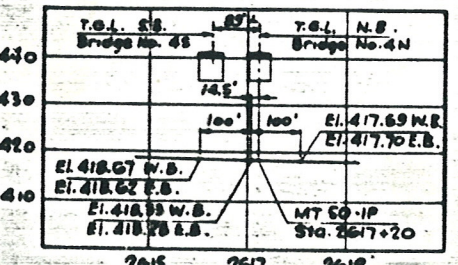
ELEVATION  
Scale 1"=20'



SECTION A-A  
(Scale 1"=10'  
Typ. all Sections)



PROFILE-ROUTE 1481 N.B. & S.B.  
Scale: Horiz. 1"=200' Vert. 1"=20'

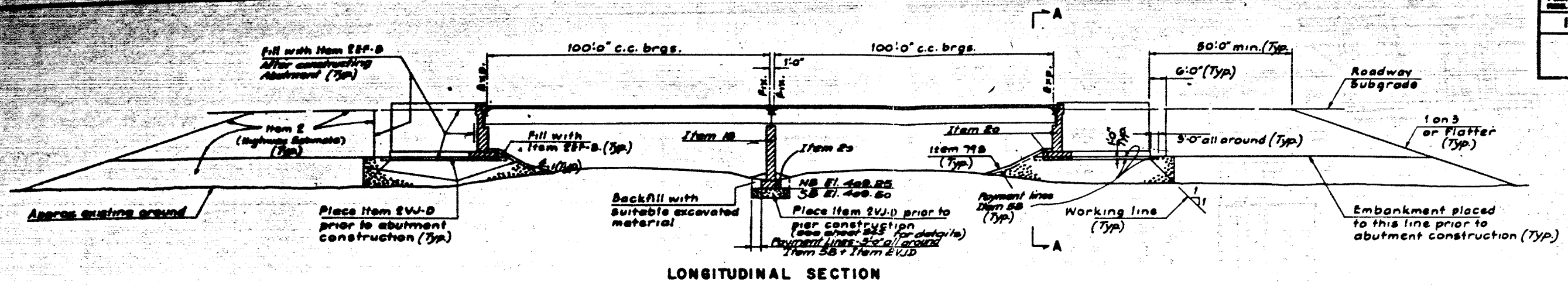


PROFILE-N.Y. STATE THRUWAY  
Scale: Horiz. 1"=200' Vert. 1"=20'

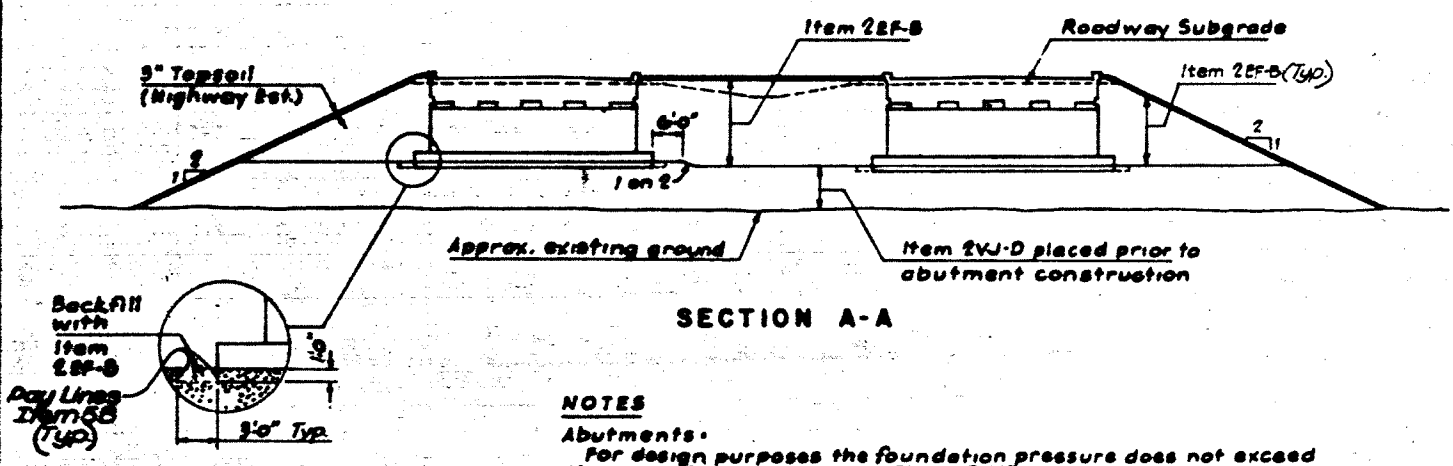
\* Elevations shown on crown line of Thruway from Field Elevation



FILE NO. CASE NO.	STATE	FEDERAL PROPERTY	AGE IN YRS.	GRANT NO.	VEHICLE NO.
1	NEW YORK	1-20-0118	241	909	
INTERSTATE ROUTE CONNECTION 570 BUTTERNUT INTERCHANGE-COLLAMER					
ONONDAGA COUNTY					



**LONGITUDINAL SECTION**



**SECTION A-A**

**NOTES**

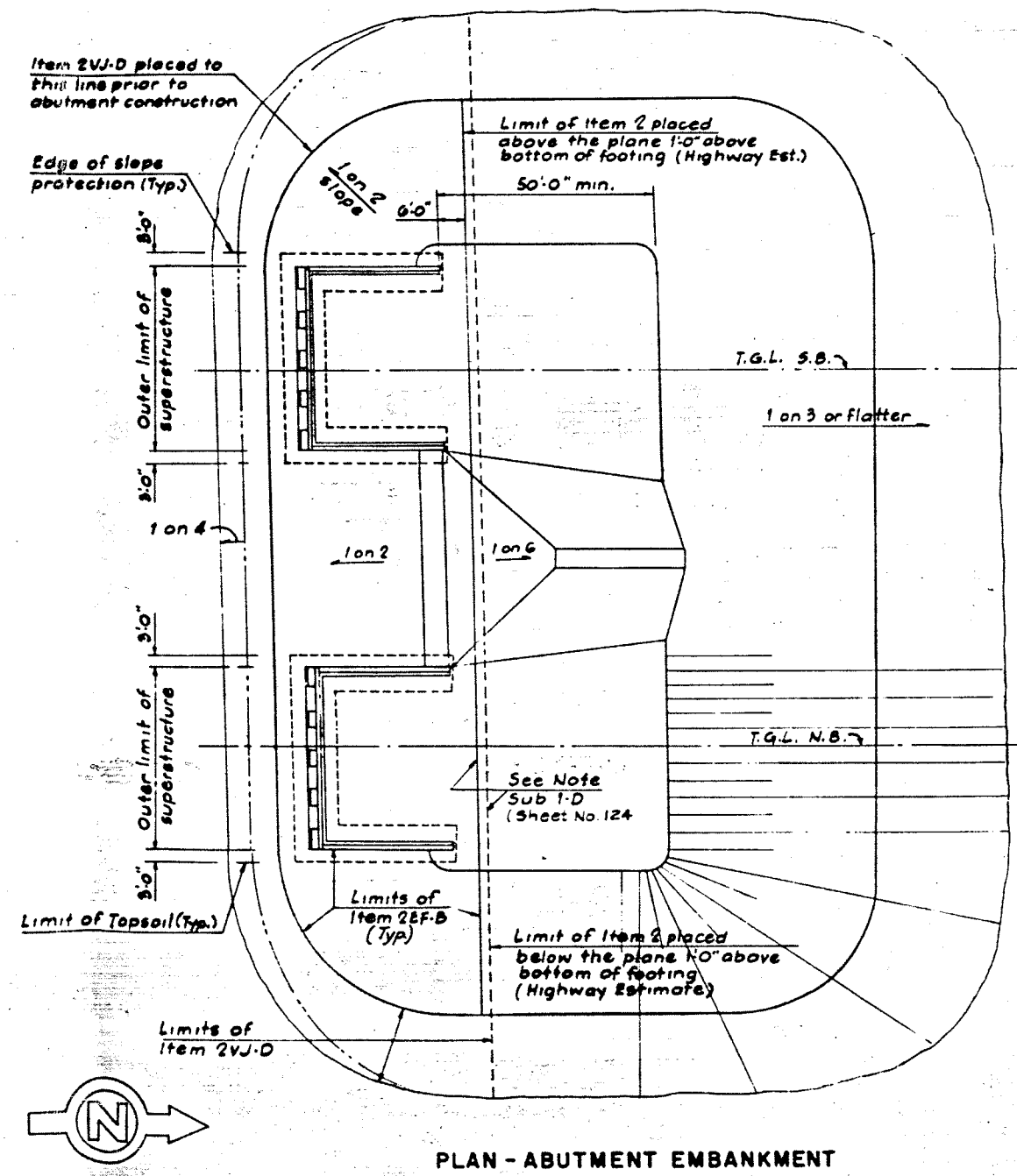
**Abutments.**

For design purposes the foundation pressure does not exceed 2 1/2 tons/s.f. on compacted Item 2VJ-D.

All fill shall be completed to subgrade and allowed to settle to the satisfaction of the Deputy Chief Engineer (Design) prior to pouring pedestals, header and safety walks to the elevations shown on the Plans.

**Piers:**

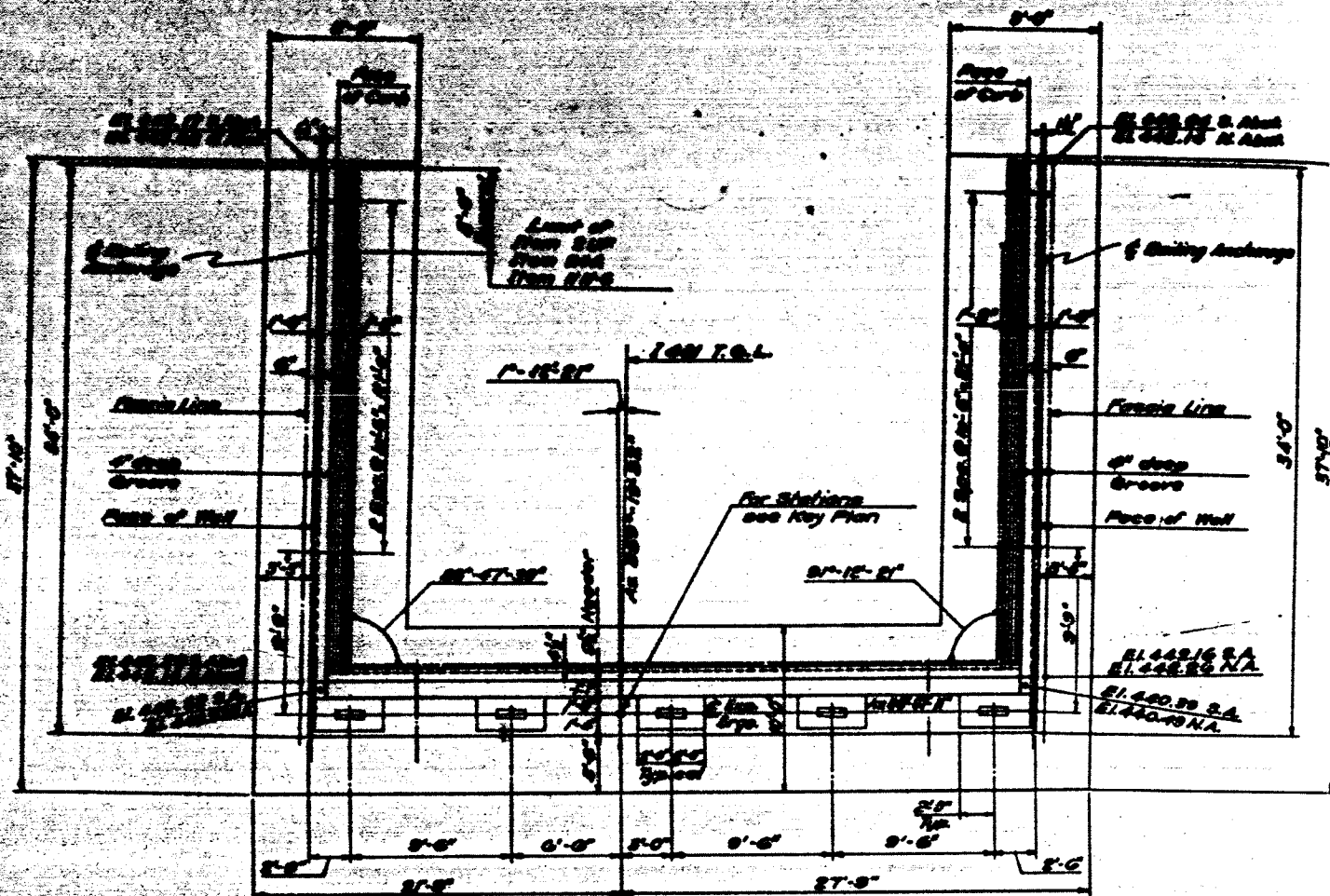
For design purposes the foundation pressure does not exceed 2 tons/s.f. on compacted Item 2VJ-D.



PLAN - ABUTMENT EMBANKMENT

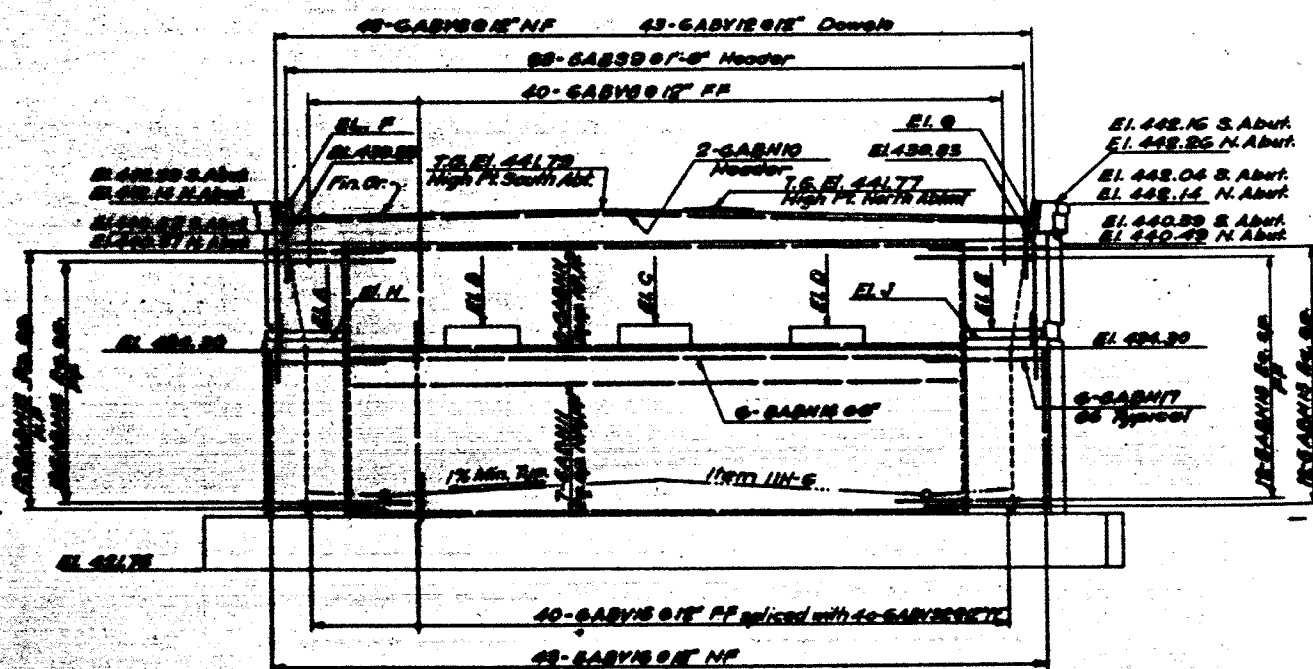


FILE NO.	DATE	PROJECT	NO.	REV.
1	NOV 1961	1-481-2(115)	242	
INTERSTATE ROUTE CONNECTION ST				
BUTTERNUT INTERCHANGE - COLLAGE				
ONDAGA COUNTY				

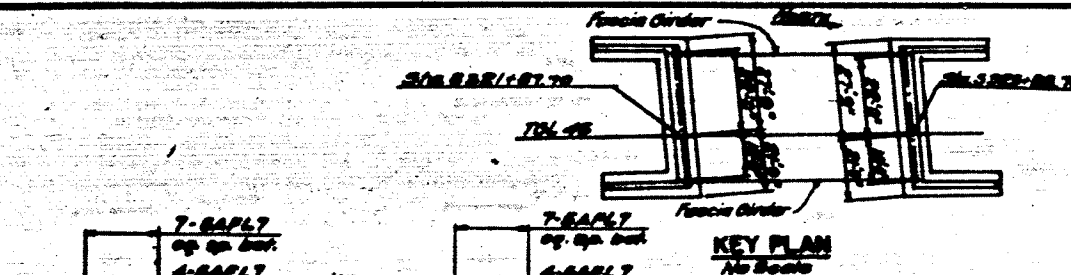


PLAN  
Scale: 1/4" = 1'-0"

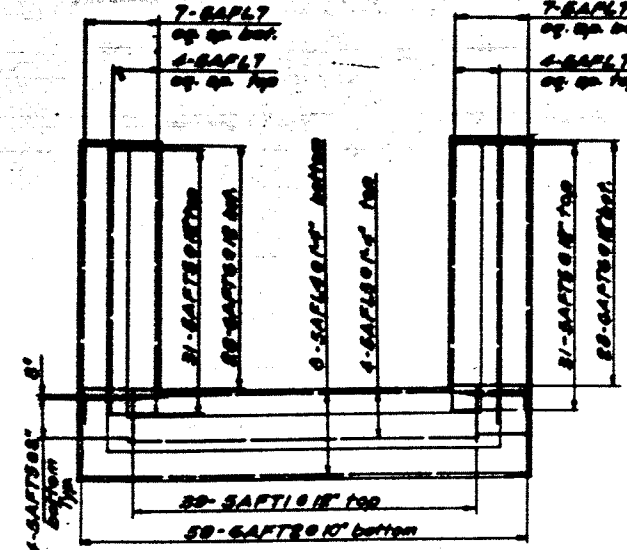
NOTE:  
South Abutment as shown  
North Abutment similar



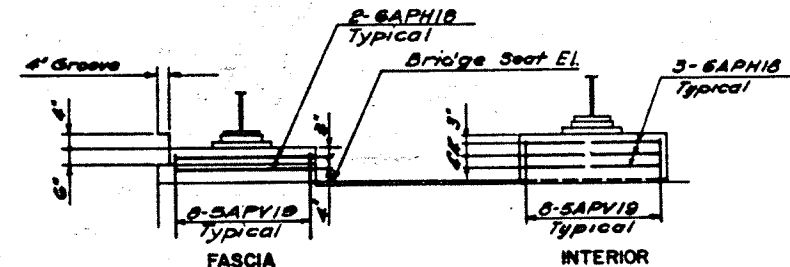
ELEVATION  
Scale: 1/4" = 1'-0"



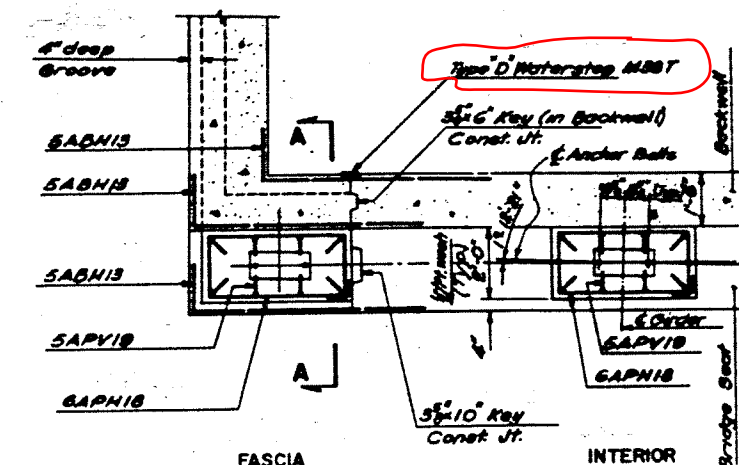
KEY PLAN  
No Scale



FOOTING REINFORCEMENT  
Scale: 1/4" = 1'-0"



ELEVATION-PEDESTALS  
Not to scale

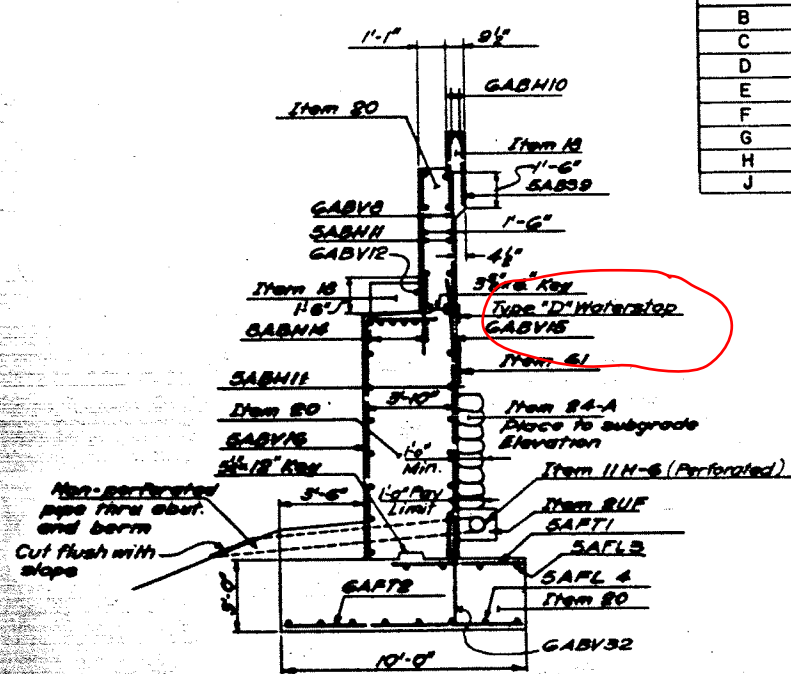


PLAN-PEDESTALS  
Scale: 1/4" = 1'-0"

ABUT.	NORTH	SOUTH
ELEV.		
A	435.10	435.25
B	435.80	435.45
C	435.50	435.53
D	435.42	435.52
E	435.23	435.12
F	441.28	441.43
G	441.40	441.30
H	434.60	434.75
J	434.73	434.62

SECTION A-A  
Scale: 1/4" = 1'-0"

- NOTES:
1. Anchor bolts for bearings shall be roughened or swaged bolts, 1'-2 1/2" long and set 10" into concrete.
  2. For Excavation and Backfill details Sheet No. 241
  3. For Backwall and waterstop details Sheet No. 125
  4. For Expansion Bearing detail see Sheet No. 241
  5. For Rail Post spacing see Sheet No. 241

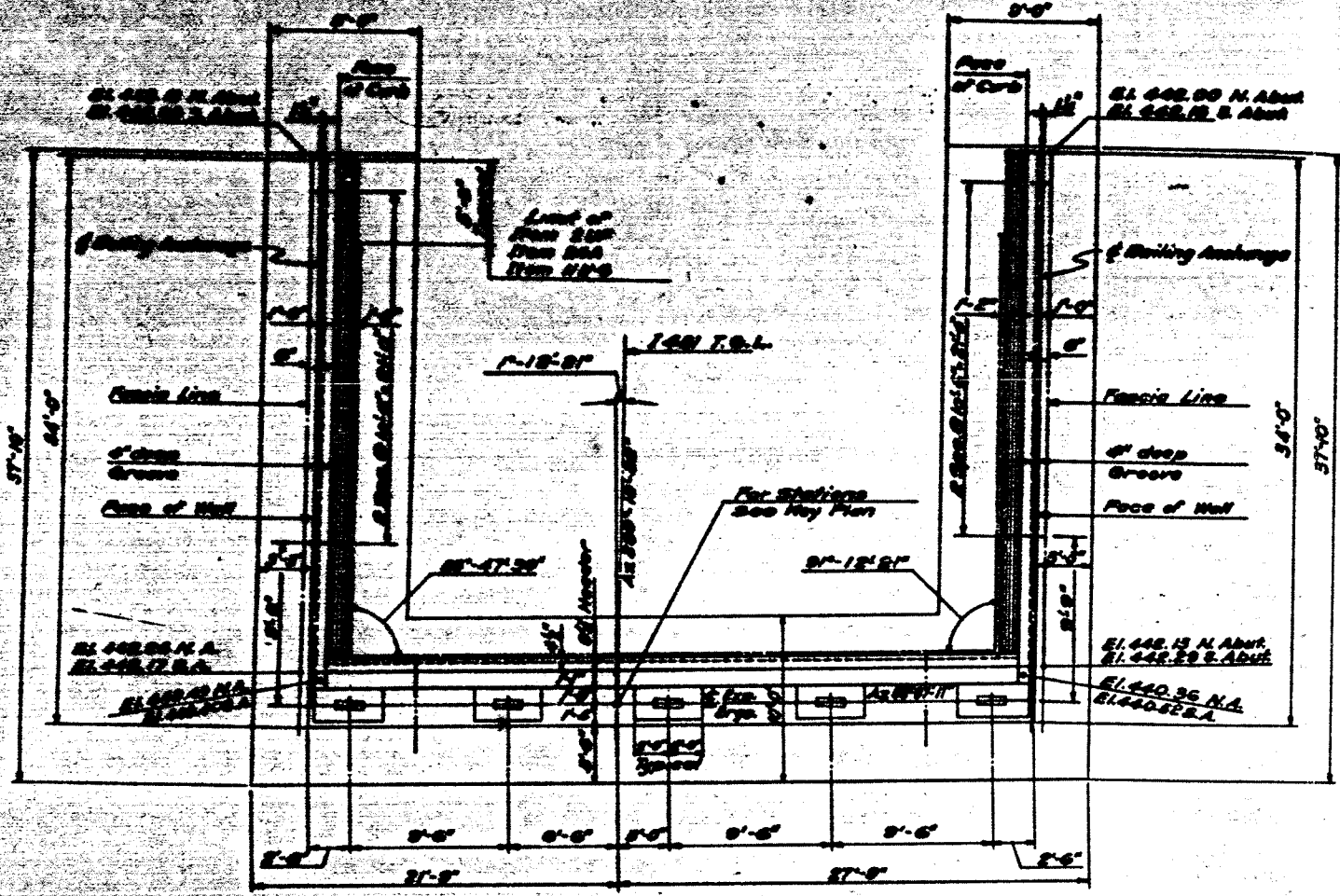


TYPICAL SECTION  
Scale: 1/4" = 1'-0"

F.A.I. 481		
BRIDGE NO. 45		
1 481 OVER N.Y. STATE THRU		
ABUTMENTS		
DESIGNED BY	SCALE	DATE
8088-03	As shown	8/2/70
LOCKWOOD, KESSLER & BARTLE		
CONSULTING ENGINEERS - SYRACUSE, N.Y.		

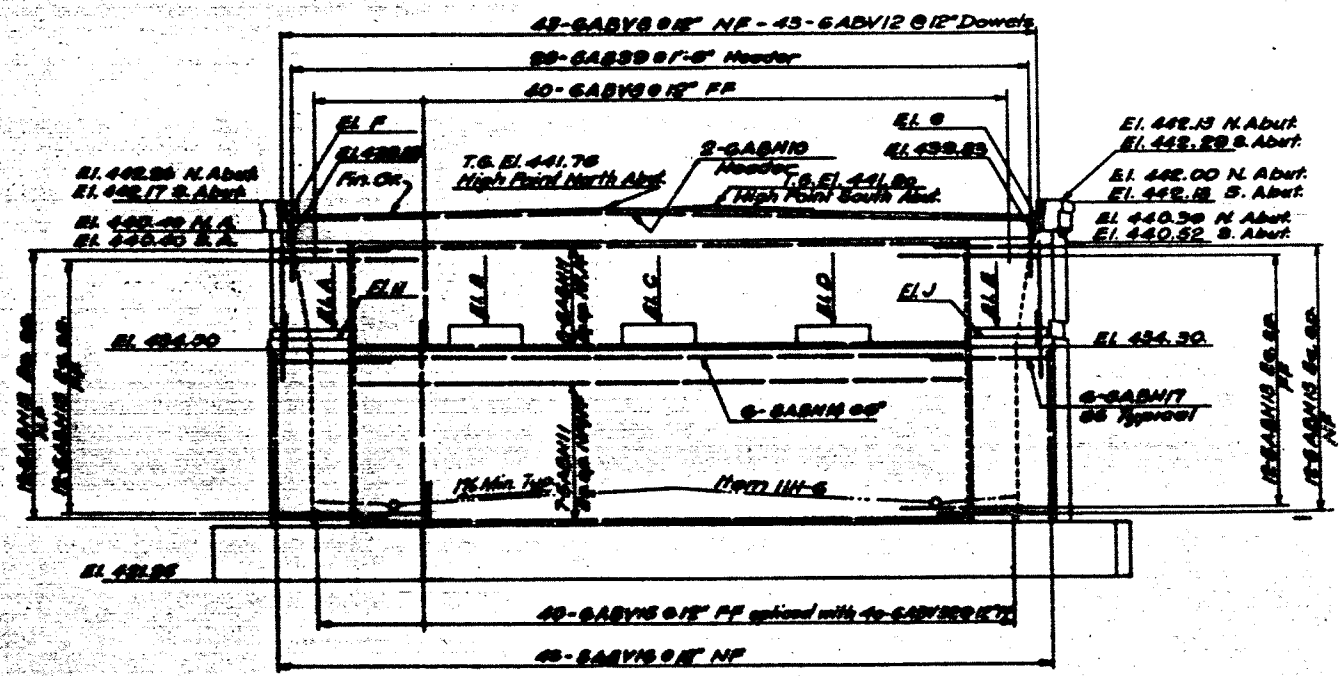


FILE NO.	DATE	PROJECT NO.	SHEET NO.
1	NEW YORK	1-1000-3103 L-1001-2/11-10	243
INTERSTATE ROUTE CONNECTION ST BUTTERNUT INTERCHANGE - COLLAM ONDAGA COUNTY			

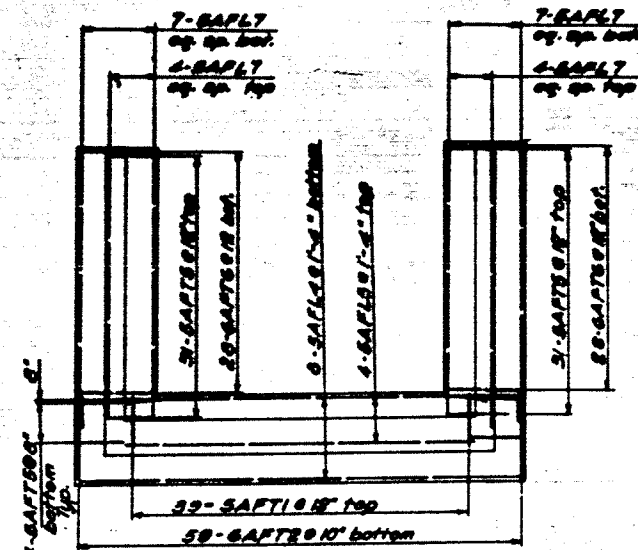


**PLAN**  
Scale: 1/4" = 1'-0"

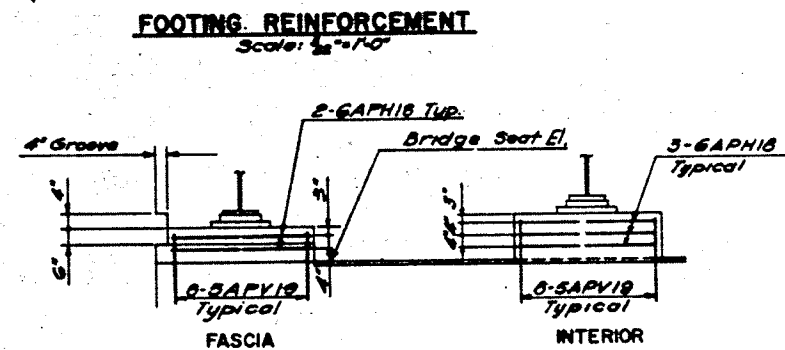
**NOTE:**  
North Abutment as shown  
South Abutment similar



**ELEVATION**  
Scale: 1/4" = 1'-0"

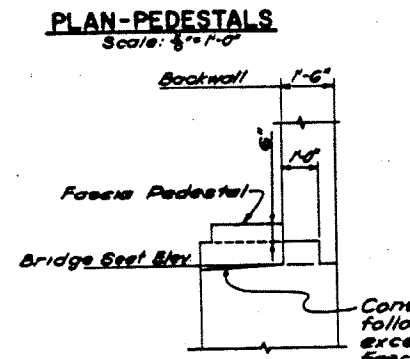


**KEY PLAN**  
No Scale

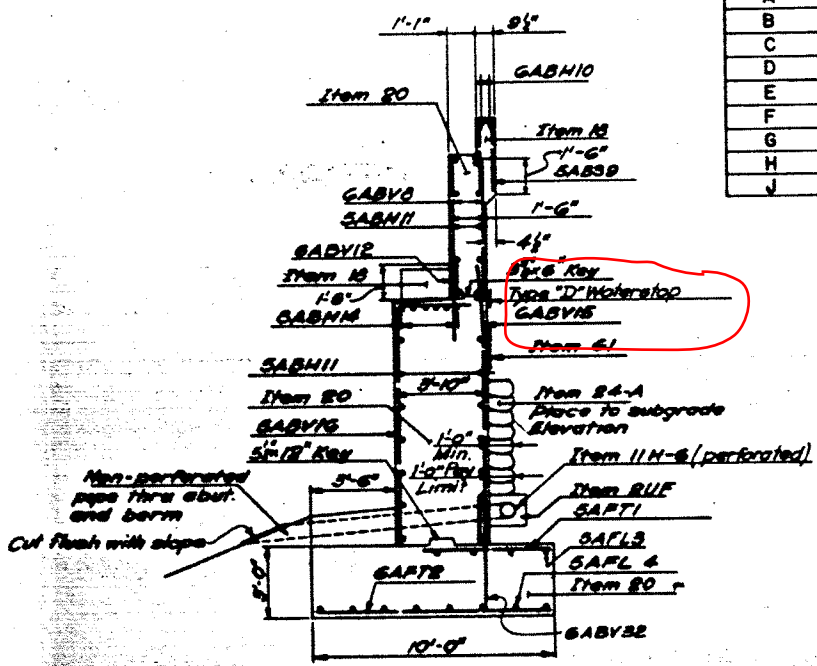


**ELEVATION-PEDESTALS**  
Not to scale

ABUT. ELEV.	NORTH	SOUTH
A	435.22	435.13
B	435.42	435.33
C	435.49	435.53
D	435.29	435.48
E	435.09	435.26
F	441.60	441.31
G	441.87	441.43
H	434.72	434.63
J	434.99	434.76



**PLAN-PEDESTALS**  
Scale: 1/4" = 1'-0"



**TYPICAL SECTION** (North Abutment shown)  
Scale: 1/4" = 1'-0"

- NOTES:**
1. Anchor bolts for bearings shall be roughened or swaged bolts, 1-2 1/2" and set 10" into concrete.
  2. For Excavation and Backfill details see Sheet No. 241
  3. For Backwall and waterstop details see Sheet No. 125
  4. For Expansion Bearing detail see Sheet No. 124
  5. For Rail Post spacing see Sheet No. 241

F.A.L. 401		
BRIDGE NO. 4N 1 4N OVER N.Y. STATE TH ABUTMENTS		
DESIGNED BY SOS-03	DATE As Shown	CHKD Q/S/70
LOCKWOOD, KESSLER & BARTLE CONSULTING ENGINEERS - SYRACUSE		







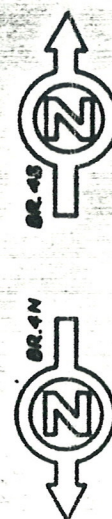


Diagram of a 11PBL10 component. The component is a rectangular unit with a central square area containing a grid of pins. The following labels are present:

- 11PBL10 (top center)
- 5PDS21 (top left)
- 5PST16 (middle left)
- 10PBL15 (middle left)
- 5PBL13/ (middle left)
- 5PBL12 (middle left)
- 5PDS21 (bottom left)
- 5PBL9 (bottom center)

11PBL10

5PBS22

5PBL16

10PBL15

5PBL13

5PBL12

5PBL11

Technical drawing of a rectangular component. The drawing shows a top view with a rectangular outline and internal dashed lines indicating a central rectangular area. The overall width is labeled as 11PBL 10. The overall height is labeled as 5PBS 22. The central area is labeled as 10PBL 10. The drawing is oriented vertically on the page.

ONONDAGA COUNTY  
 Anchor bolts for b  
 shall be 1" Ø rough  
 or swedged bolts  
 and set to info

10"

GPPS 23  
 GPPS 24

5 PPV 25

PBL13  
 PBL12  
 PBL11

3-5 PBL 14

12-5PST 16

6-11PBL 10 @ 11.5"

4-10PBL 15

7'-0"

Symmetrical about C

Item 18

El. 434.50

2-5PBL 13 ER

1-5PBL 12 ER

1-5PBL 11 ER

4-5PBL 9

8-10PBL 8

2x10-5PBL 7 @ 12"

16-11PCV6

16-11PFV5

11-11PFL 4

12-9PFL 3

3'-0"

3'-0"

3'-0"

3'-0"

15'-3"

10'-0"

3'-0"

3'-0"

11'-0"

6'-6"

5'-0"

Key 12" x 12" x 5" Typical

Item 20

19-9PFL 3

18-5PFT 1 @ 12" top

18-7PFT 2 @ 12" bott.

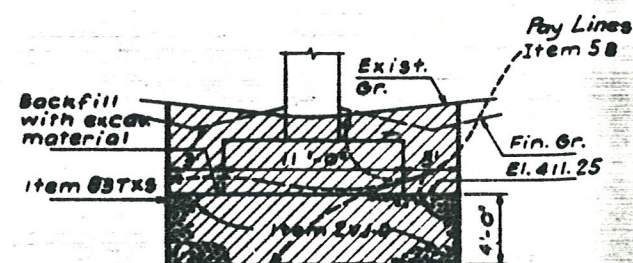
El. 41

**INTERIOR**

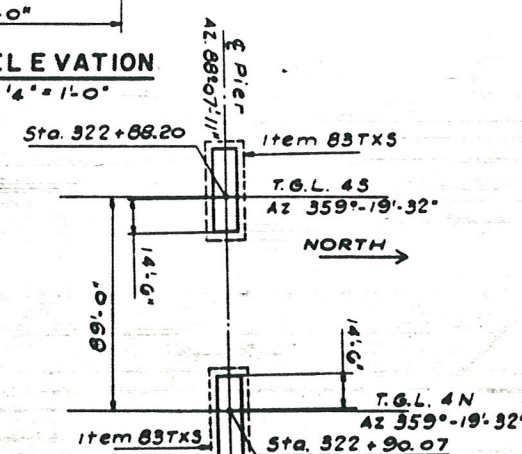
**FASCIA**

**SECTION D-D**

**SECTION D-D**  
Scale '2" = 1'-0"



**DETAIL - EXCAVATION**  
Scale 3/16" = 1'-0"

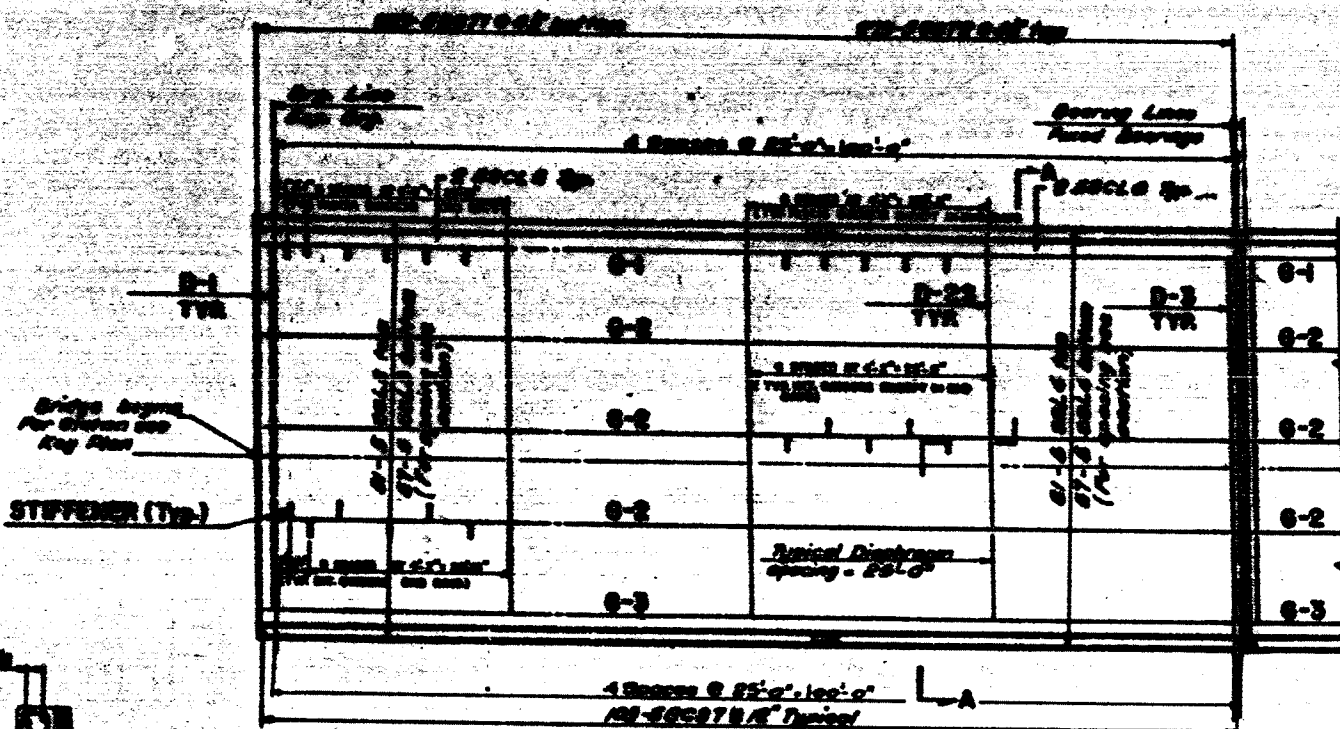


PLAN  
Scale 1" = 40'

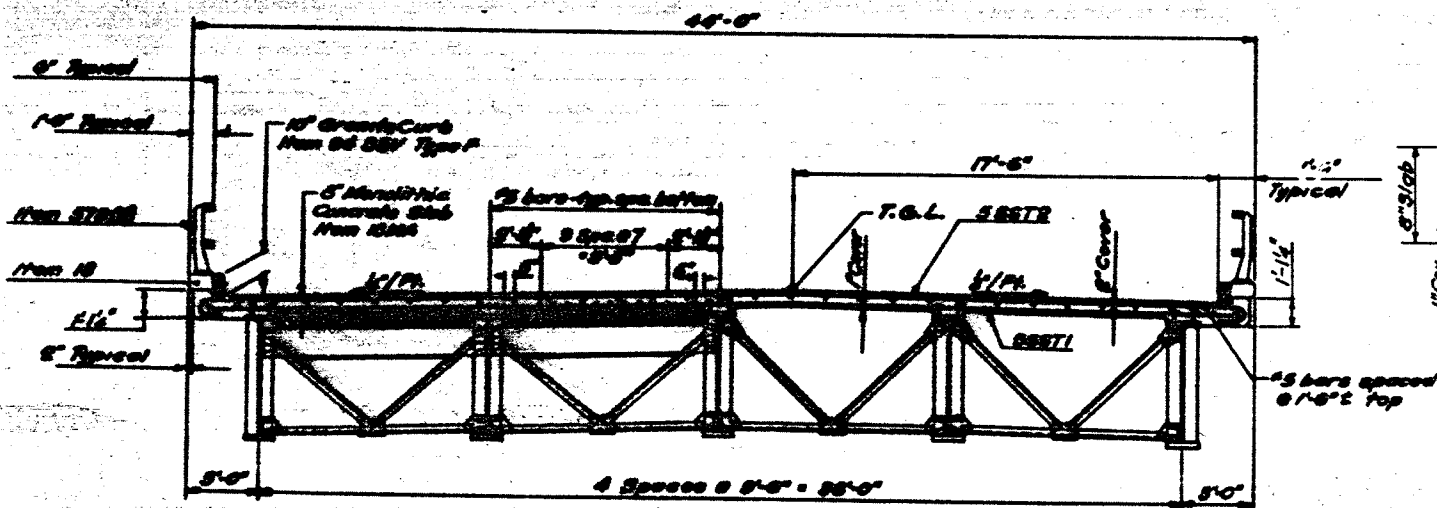


FILE NO.	DATE	PROJECT	SHEET NO.	TOTAL SHEETS
1	NEW YORK	14800-5125 1-481-37(116)	246	250

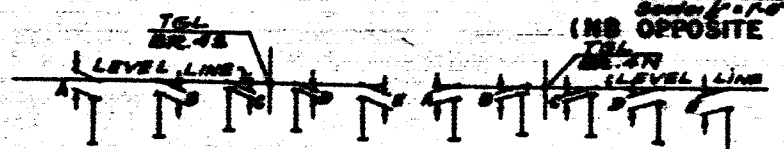
INTERSTATE ROUTE CONNECTION 570  
BUTTERNUT INTERCHANGE-COLLAMER  
ONONDAGA COUNTY



PLAN 3A  
(N.B. PLAN SIMILAR)



SECTION A-A S.B.  
(N.B. OPPOSITE HAND)



BRIDGE	1.4	1.5	1.6	1.7	1.8	1.9
48	2.3	1.5	1.1	1.1	1.0	1.0

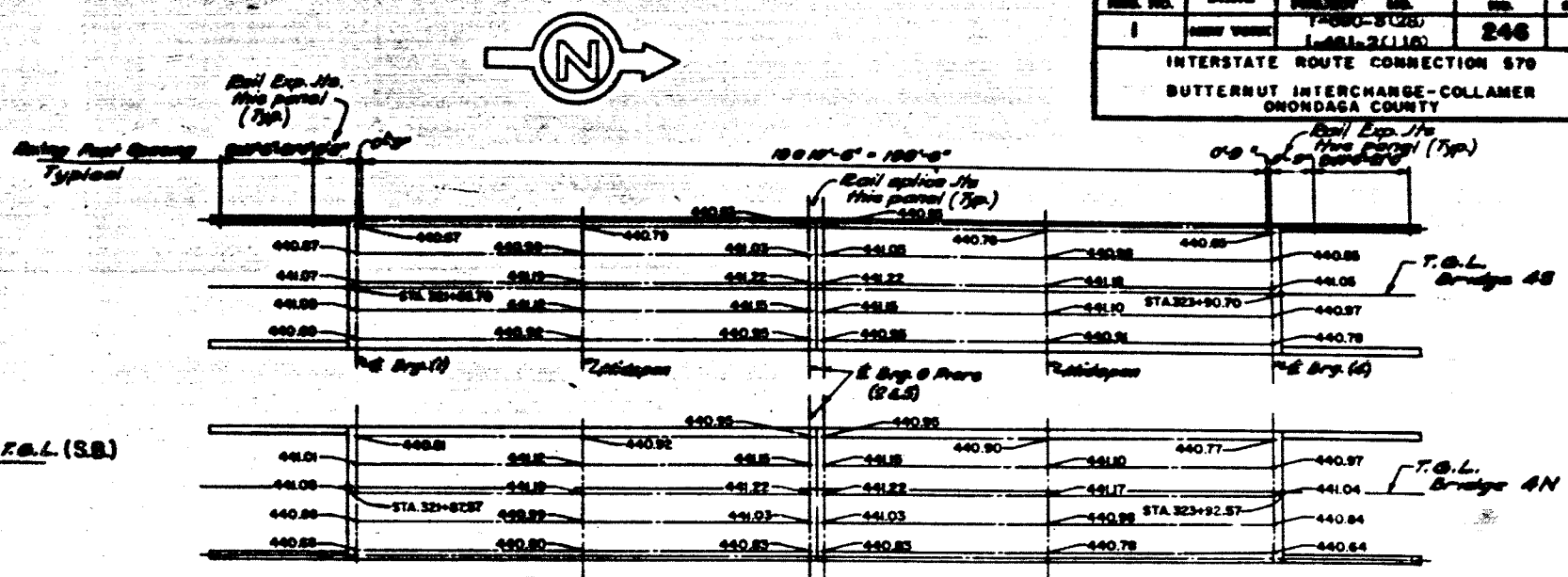
BRG. LINES

BRIDGE	1.4	1.5	1.6	1.7	1.8	1.9
48	2.3	1.5	1.1	1.1	1.0	1.0

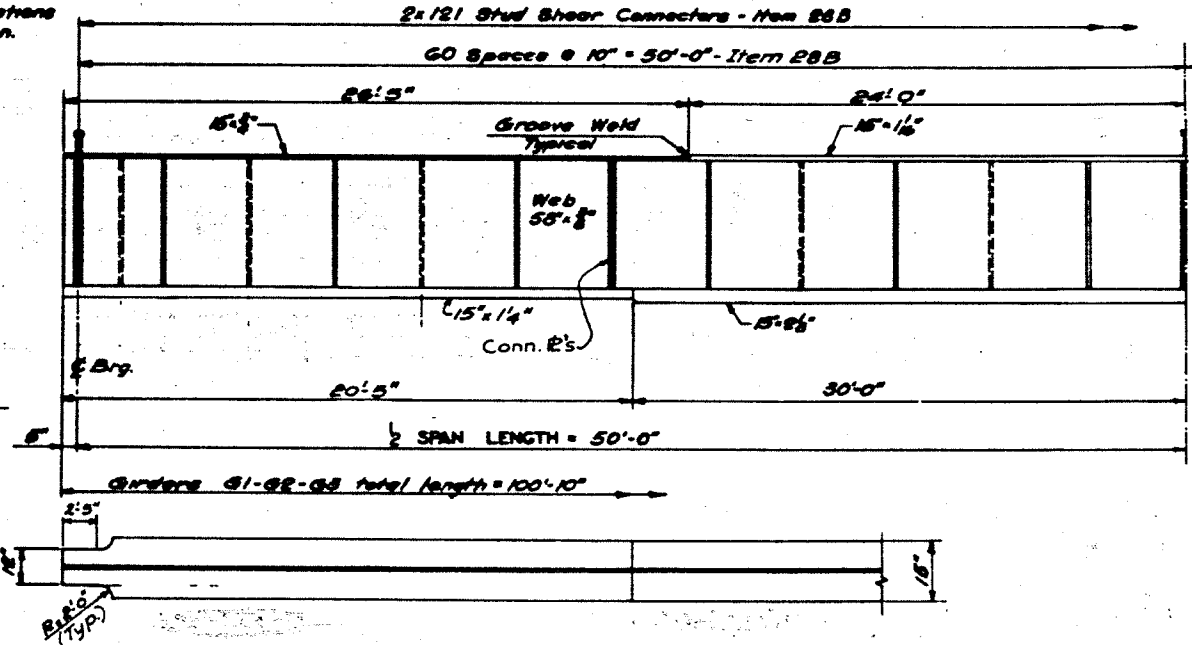
VERTICAL MEASUREMENTS TO TOP OF STEEL

BRIDGE	1.4	1.5	1.6	1.7	1.8	1.9
48	2.3	1.5	1.1	1.1	1.0	1.0

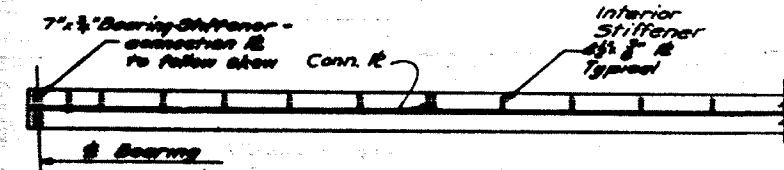
	FASCIA GIRDER	INTERIOR GIRDER
SLAB CONCRETE	18"	18"
V.C.	6"	6"
SUPERIMPOSED DEAD LOAD	8"	8"
D.L. STEEL ERECTED	7"	7"
TOTAL	27"	33"



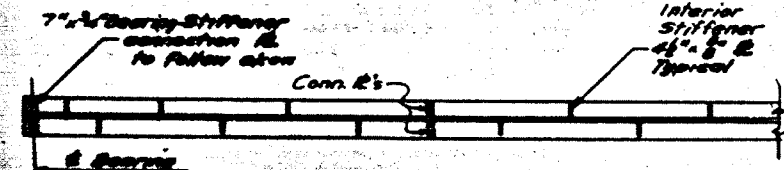
UNDERSIDE OF SLAB ELEVATIONS  
& KEY PLAN



PLAN-BOTTOM FLANGE



GIRDER G-3 (Top Flange shown)  
(G-1 SIMILAR)



GIRDER G-2 (Top Flange shown)

- NOTES:
- For Diaphragm Details, Connection Plates and weld sizes, see Sheet No. 129
  - For Fabrication Notes see Sheet No. 129
  - For Curb Details see Sheet No. 125

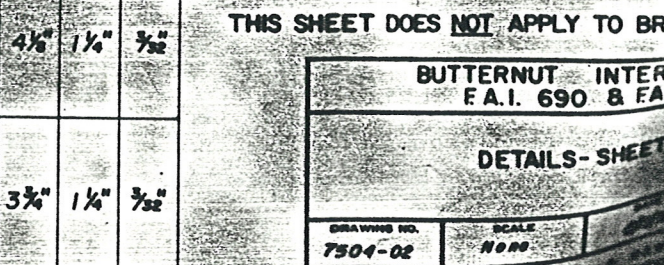
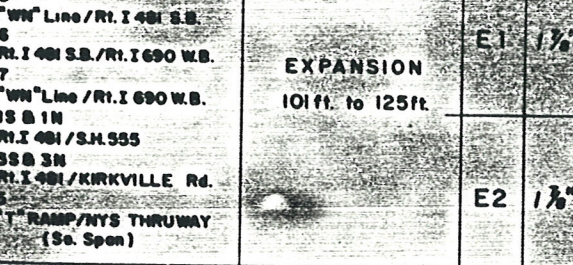
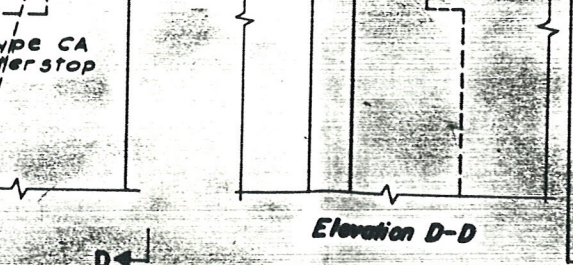
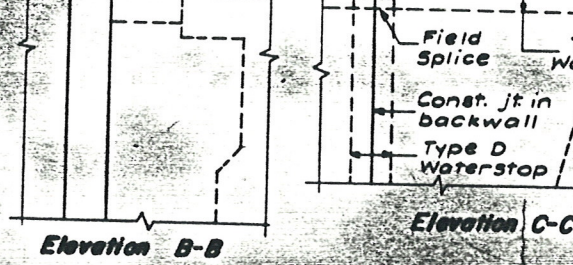
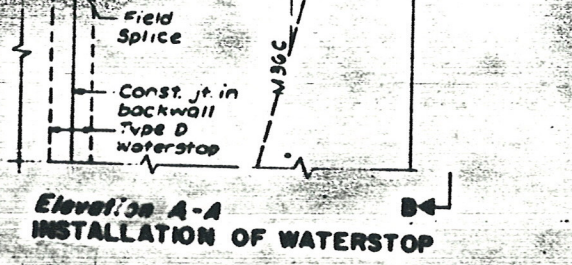
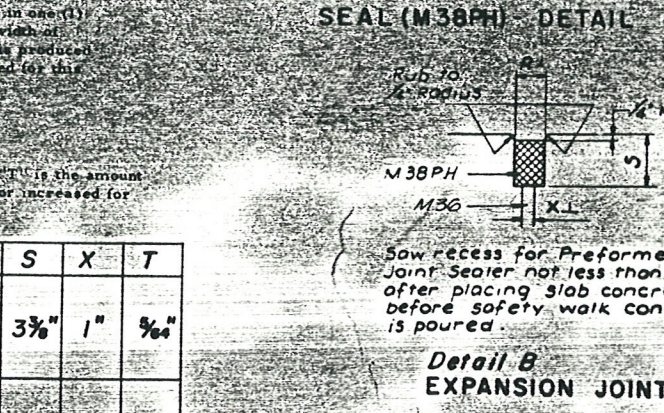
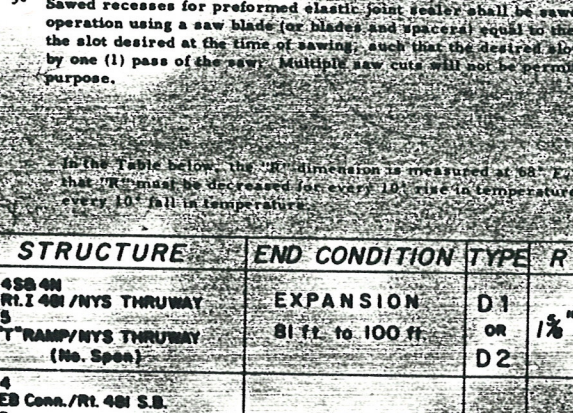
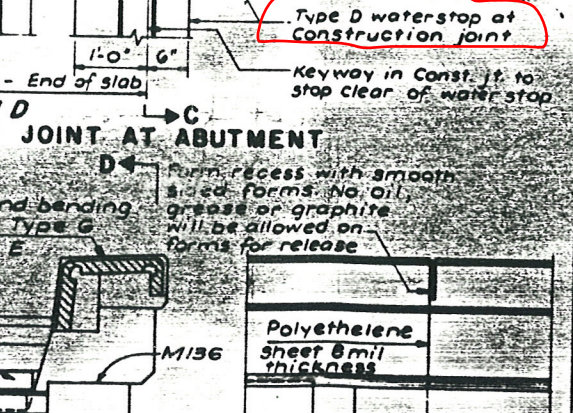
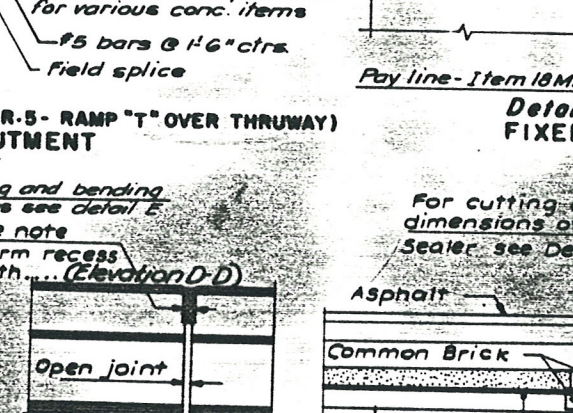
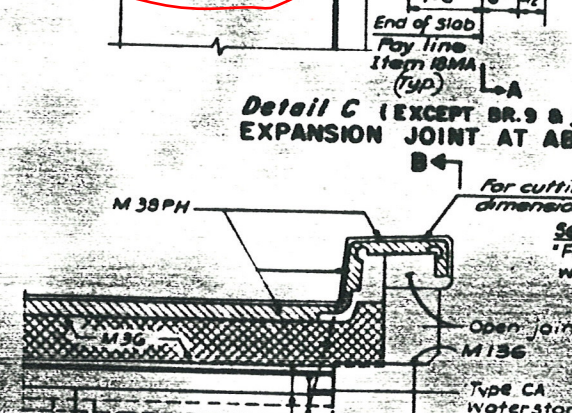
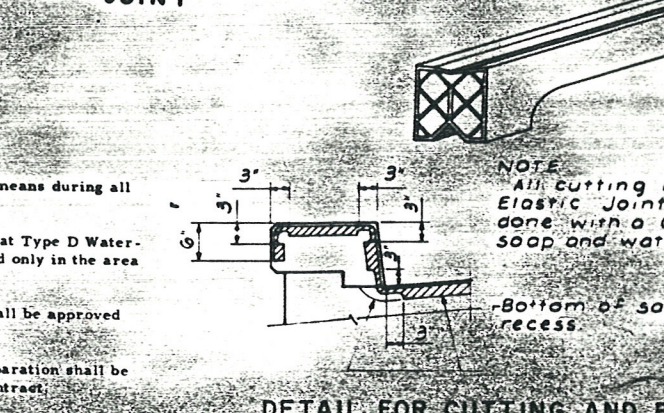
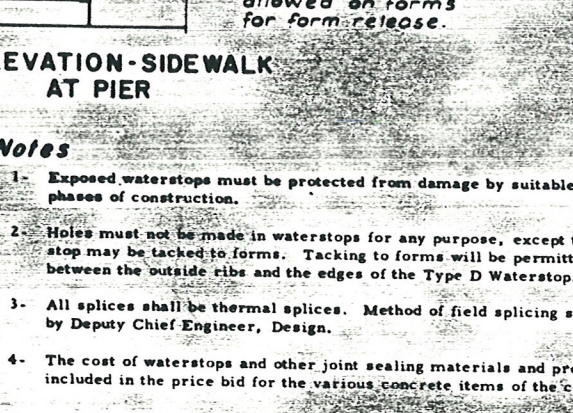
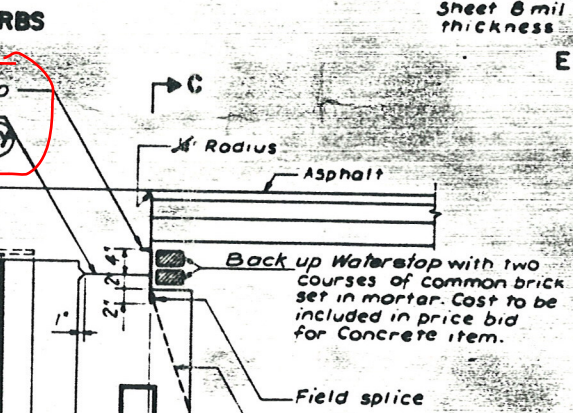
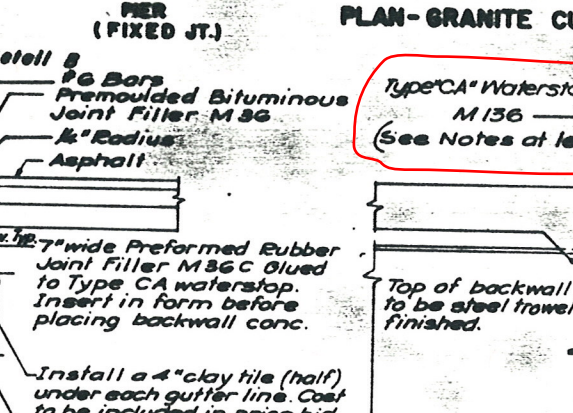
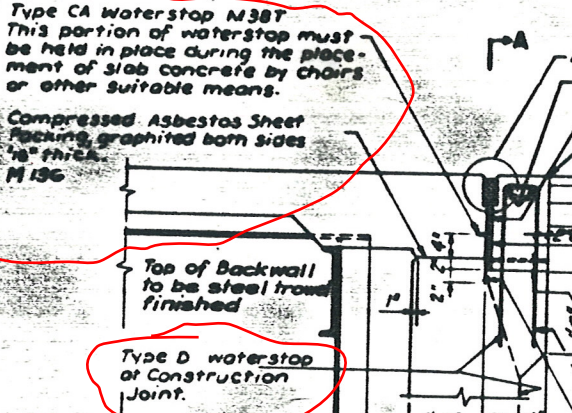
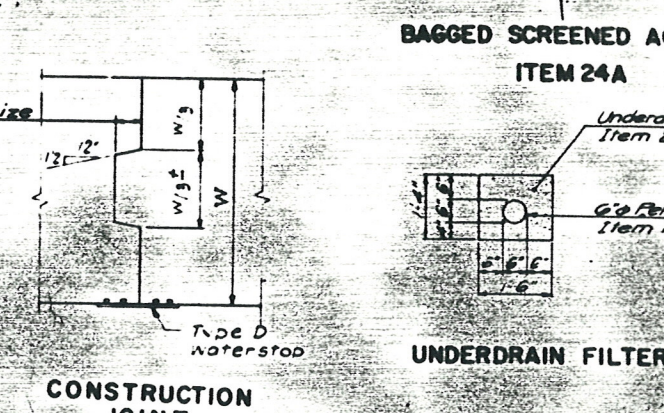
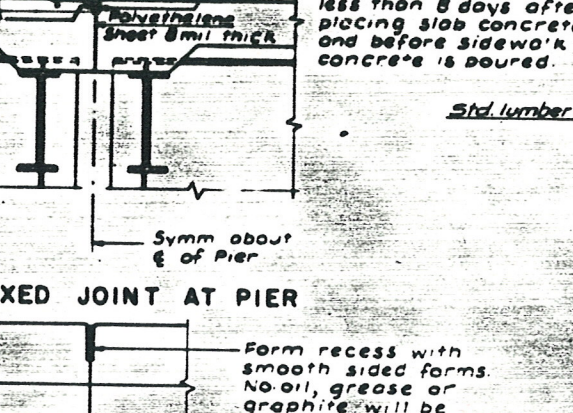
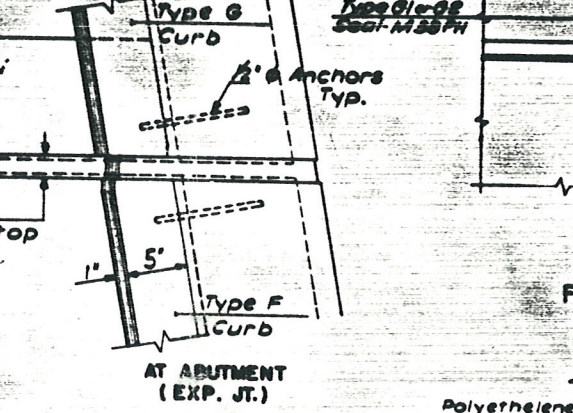
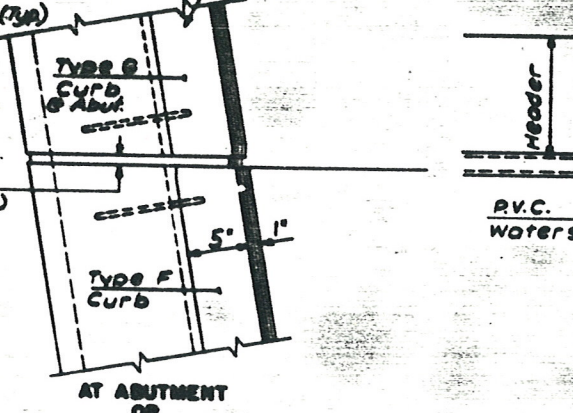
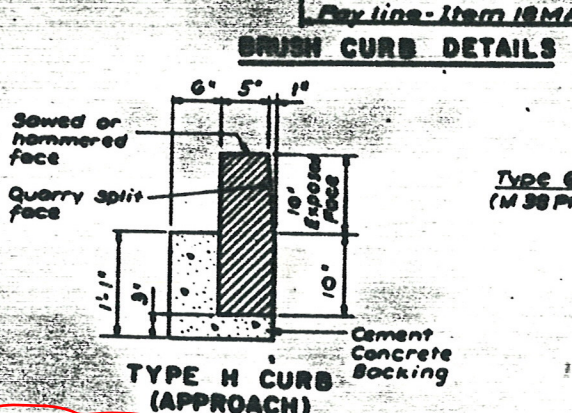
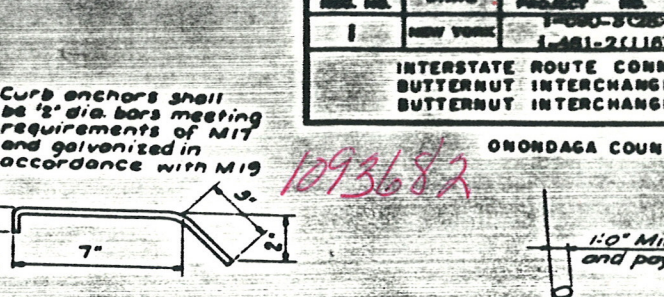
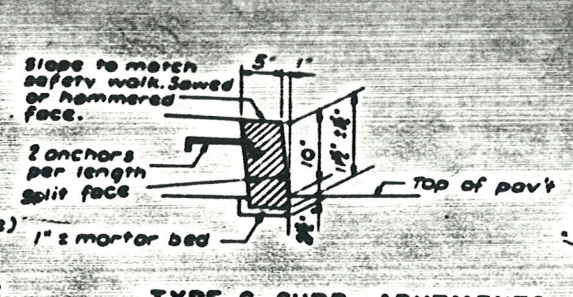
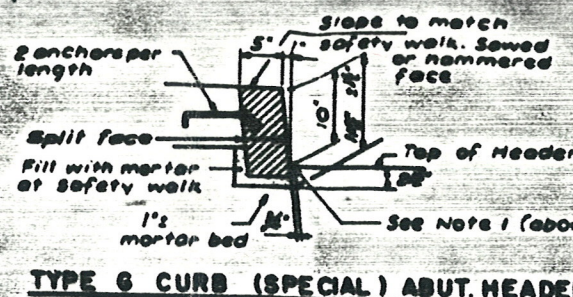
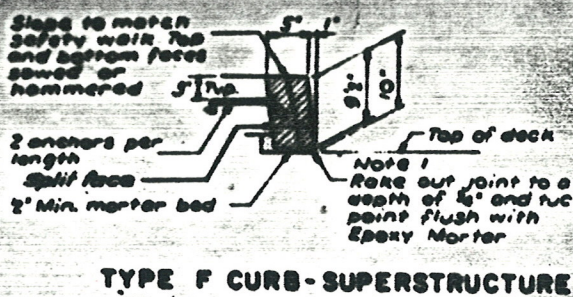
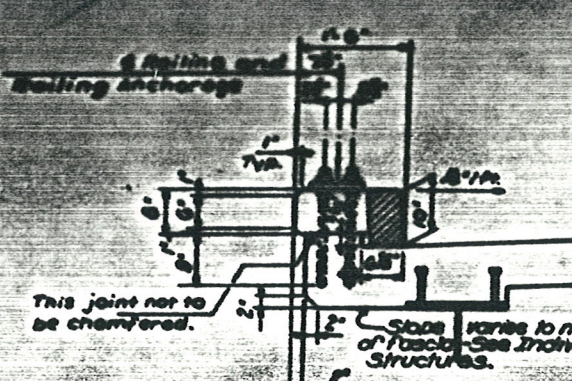
F.A.I. 481			
BRIDGE NO. 43 & 4N			
I 481 OVER N.Y. STATE THRUWAY			
BRIDGE NO.	DATE	BY	246
9085-03	As Shown	6/3/70	



FED. PROJ. NO.	STATE	FEDERAL PROJECT	AD. NO.
1	NEW YORK	1-690-3125	1-691-2(116)

INTERSTATE ROUTE COMM. BUTTERNUT INTERCHANGE BUTTERNUT INTERCHANGE

ONONDAGA COUNTY



- Notes**
- Exposed waterstops must be protected from damage by suitable means during all phases of construction.
  - Holes must not be made in waterstops for any purpose, except that Type D Waterstop may be tacked to forms. Tacking to forms will be permitted only in the area between the outside ribs and the edges of the Type D Waterstop.
  - All splices shall be thermal splices. Method of field splicing shall be approved by Deputy Chief Engineer, Design.
  - The cost of waterstops and other joint sealing materials and preparation shall be included in the price bid for the various concrete items of the contract.
  - Sawed recesses for preformed elastic joint sealer shall be sawed in one (1) operation using a saw blade (or blades and spacers) equal to the width of the slot desired at the time of sawing, such that the desired slot is produced by one (1) pass of the saw. Multiple saw cuts will not be permitted for this purpose.

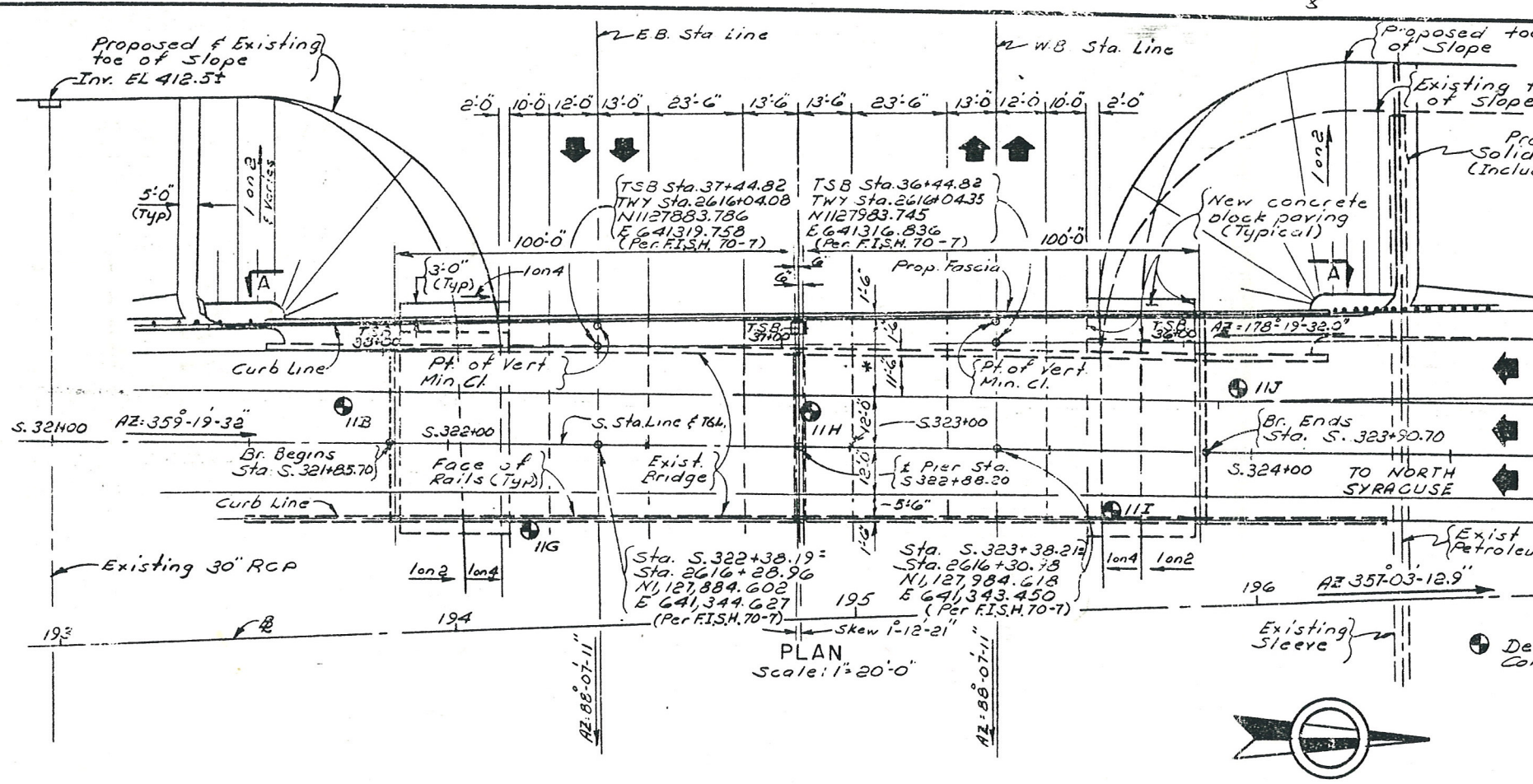
STRUCTURE	END CONDITION	TYPE	R	S	X	T
4 SB 4N Rt. I 401/NYS THRUWAY	EXPANSION	D1	1 1/2"	3 3/4"	1"	3/4"
5 "T" RAMP/NYS THRUWAY (No. Span)	81 ft. to 100 ft.	or D2				
4 EB Conn./Rt. I 401 S.B.	EXPANSION 101 ft. to 125 ft.	E1	1 1/2"	4 1/4"	1 1/4"	3/2"
5 "WN" Line/Rt. I 401 S.B.						
6 Rt. I 401 S.B./Rt. I 690 W.B.						
7 "WN" Line/Rt. I 690 W.B.						
15 B 1N Rt. I 401/S.H. 555						
35 B 3N Rt. I 401/KIRKVILLE Rd.		E2	1 1/2"	3 3/4"	1 1/4"	3/2"
5 "T" RAMP/NYS THRUWAY (No. Span)						

Detail B EXPANSION JOINT

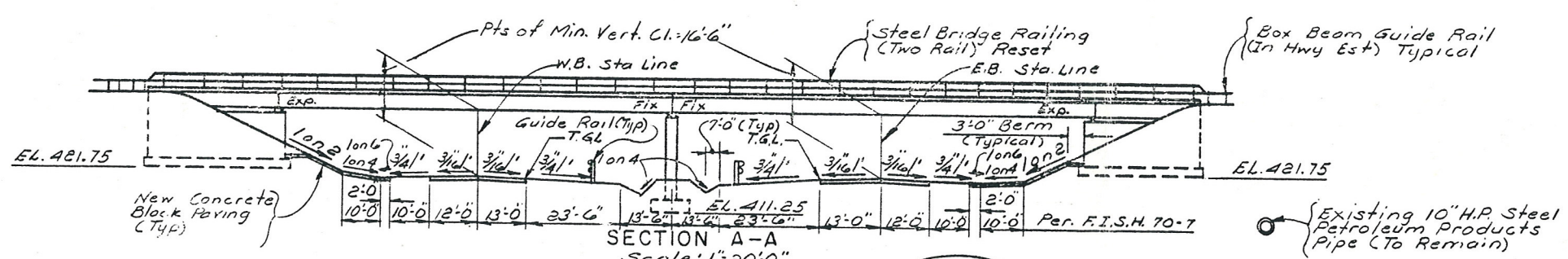
THIS SHEET DOES NOT APPLY TO BR

BUTTERNUT INTER	
F.A.I. 690 & FA.	
DETAILS-SHEET	
DRAWING NO.	SCALE
7504-02	None
LOCKWOOD, KESSLER	

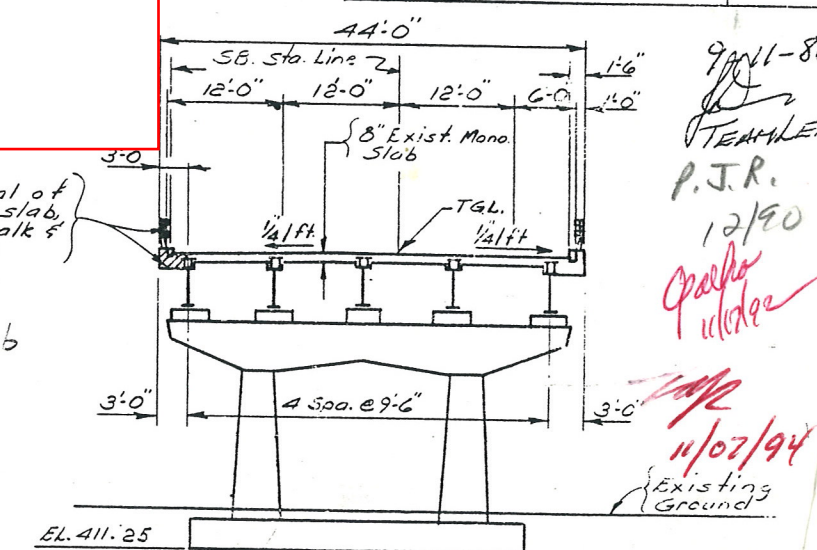




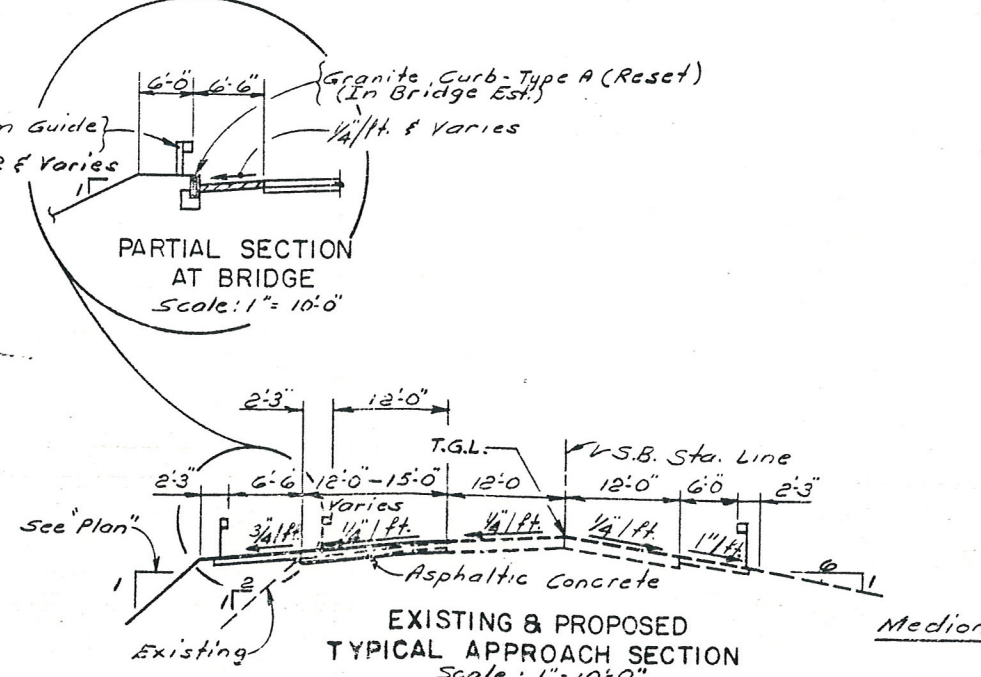
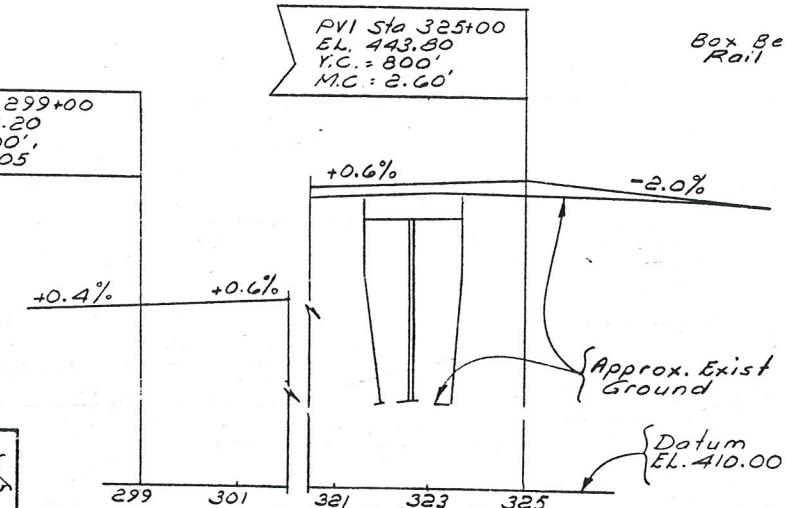
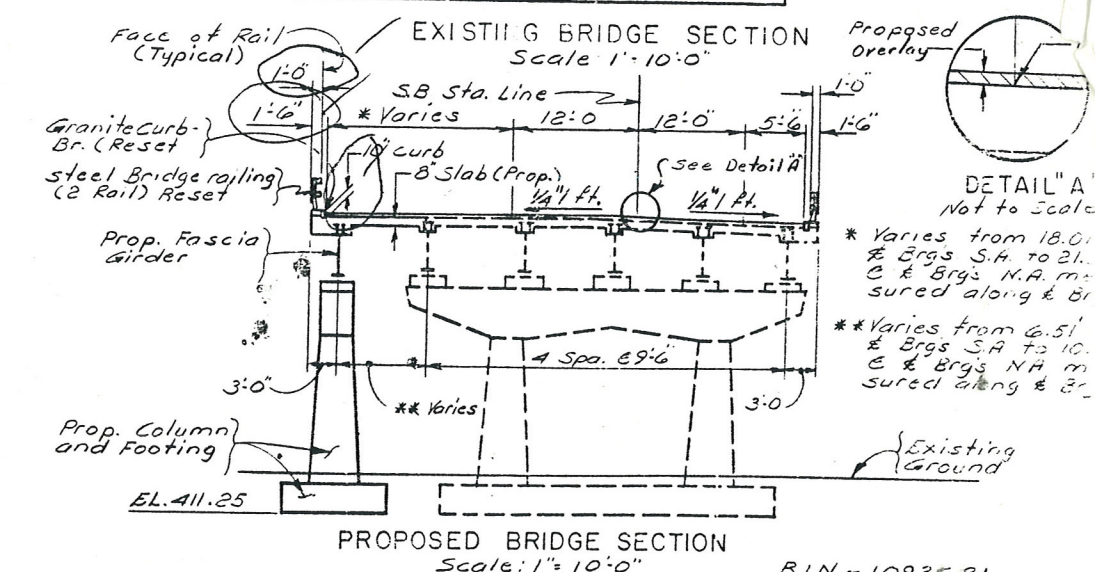
Record plans were reviewed on 12-30-13 by GA. The following suspect material was identified:  
Waterstop - pages 6 and 10



curb to curb  
48'-0"



9/11-86  
TEAM LEAD  
P.J.R.  
12/90  
Parker  
11/07/94

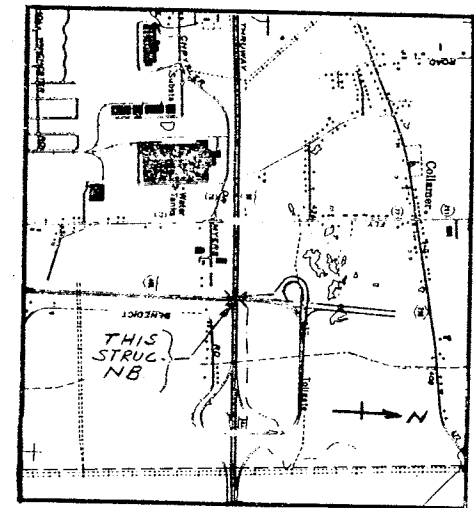


DATE MADE: 8/26/80  
PROJECT ENGINEER: E.G. Barry  
IN CHARGE OF: J. S. Neather  
DESIGNED BY: J. S. Neather  
DESIGN CHECKED BY: J. S. Neather  
DETAIL CHECKED BY: J. S. Neather

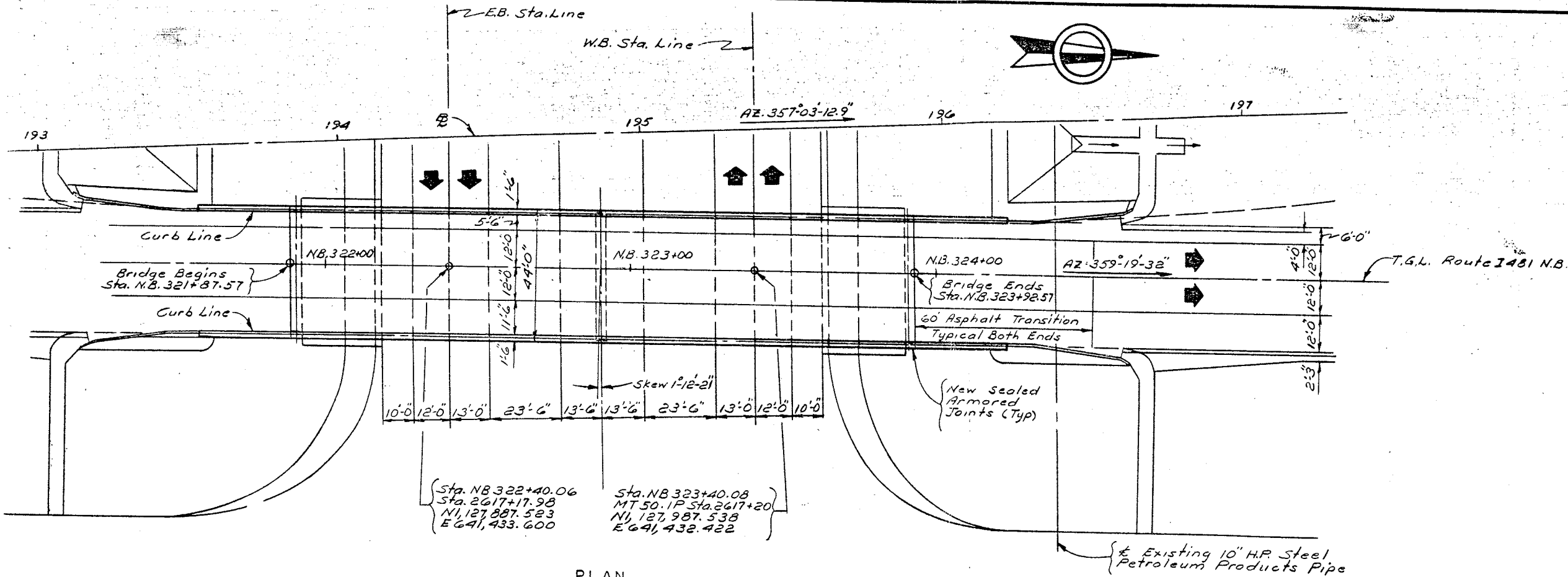
B.I.N.-1093681  
STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF CONSTRUCTION  
SOUTHBOUND I-481 OVER  
N.Y.S. THRUWAY  
PLAN & PROFILE



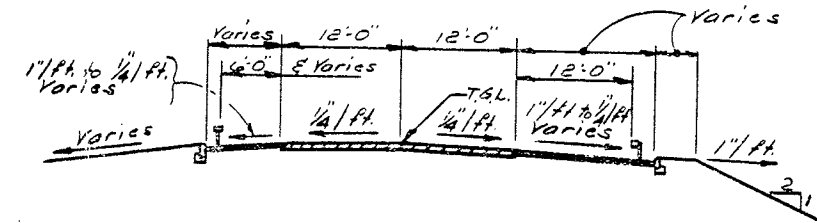
FED. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
REG. NO.	NEW YORK	I-481-2(152)	290	312
Interstate Rte. 571 Extension (I-481) Collamer Interchange to Northern Blvd. Onondaga County				
CAPITAL PROJECT IDENTIFICATION NO.				



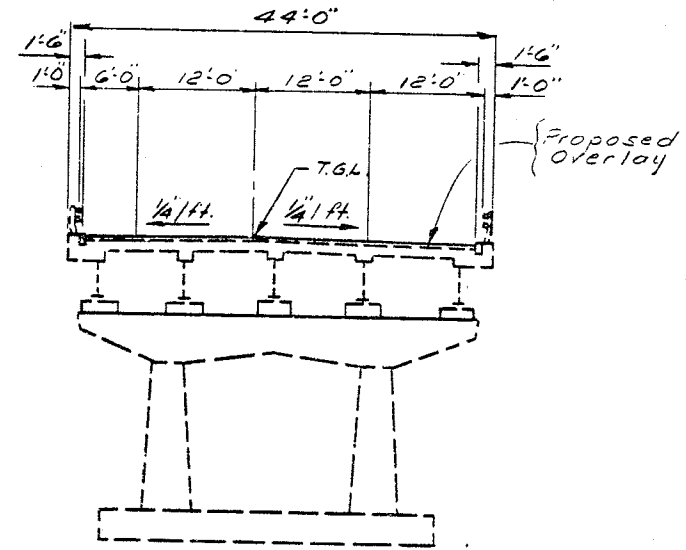
LOCATION MAP  
SYRACUSE EAST QUADRANGLE  
Scale: 1"=2000'



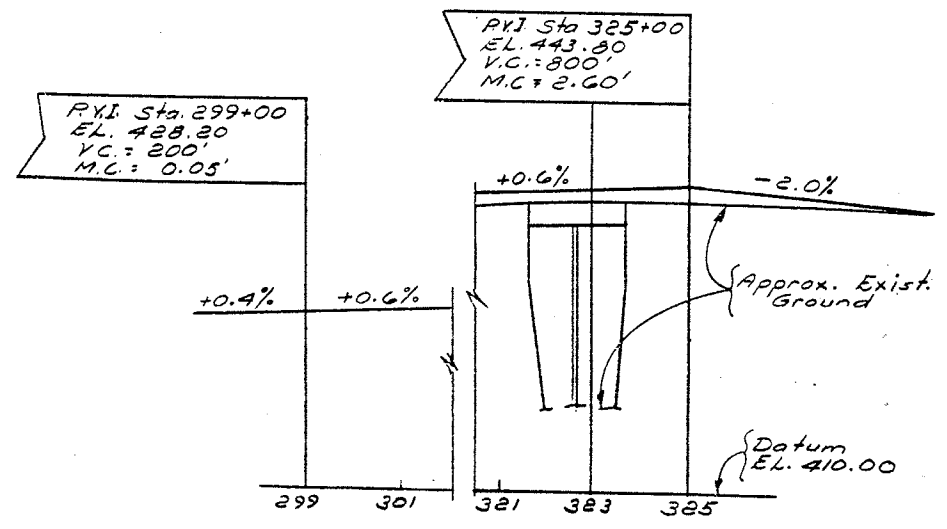
PLAN  
BRIDGE NO. 4N  
Scale: 1"=20'0"



TYPICAL  
EXISTING APPROACH SECTION  
Scale: 1"=10'0"



BRIDGE SECTION  
Scale: 1"=10'0"



EXISTING PROFILE-ROUTE I481 NB  
Scale: Horiz. 1"=200', Vert. 1"=10'0"

BIN 1093682

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF DESIGN AND CONSTRUCTION

NORTHBOUND I-481 OVER  
N.Y.S. THRUWAY

PLAN & PROFILE

PROJ. ENG. *[Signature]* DATE: 10/02

# ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED			ESTIMATED TOTAL	FINAL
			SUBSTR	SUPER	MISC.		
SOUTHBOUND							
203.21	Select Structural Fill	C.Y.	234	—	—	234	
206.01	Structure Excavation	C.Y.	521	—	—	521	
552.05	Safe Operation Sheet Piling	S.F.	—	—	1400	1400	
555.01	Concrete for Structures - Class "A"	C.Y.	11.9	5.02	—	17	
555.02	Concrete for Structures - Class "B"	C.Y.	186	—	—	186	
555.0401	Concrete for Structures - Class "E" (Structural Slab - Integral W.S. Bottom Formwork Required)	S.F.	—	2310	—	2310	
15555.2001	High Density Concrete Overlay	S.F.	—	10,454	—	10,454	
15555.3001	Latex Modified Concrete Overlay	S.F.	—	10,454	—	10,454	
556.0201	Uncoated Bar Reinf. for Concrete Structures	Lbs.	13,587	2,408	—	23,995	
556.0202	Epoxy Coated Bar Reinf. for Concrete Structures	Lbs.	433	19,006	—	19,439	
556.03	Stud Shear Connectors for Bridges	Ea.	—	536	—	536	
559.01	Epoxy Protective Coating	S.F.	155	—	—	155	
564.050601	Structural Steel	L.S.	—	Nec.	—	Nec.	
565.0301	Bridge Bearings Type BEI (Low Steel Exp)	Ea.	—	2	—	2	
565.0401	Bridge Bearings Type BFI (Low Steel Fix.)	Ea.	—	2	—	2	
567.31	Armored Joint System with Compression Seal (Type AI)	L.F.	—	54	—	54	
567.35	Armored Joint System with Compression Seal (Type AS)	L.F.	—	108	—	108	
570.0101	Cleaning & Priming New Structural Steel	L.S.	—	Nec.	—	Nec.	
570.0201	Painting New Structural Steel	L.S.	—	Nec.	—	Nec.	
570.0301	Maintenance Cleaning & Priming of Structural Steel	L.S.	—	Nec.	—	Nec.	
570.0401	Maintenance Painting of Structural Steel	L.S.	—	Nec.	—	Nec.	
580.01	Removal of Structural Concrete	C.Y.	19	29	—	48	
15580.09	Scarification of Structural Slab	S.F.	—	10,105	—	10,105	
15580.4401	Drilling & Grouting Reinforce Bars or Anchor Bolts	L.F.	82	—	—	82	
587.02	Bridge Railing Removal & Storage	L.F.	71	201	—	272	
587.04	Installation of Stored Bridge Railing (Painting Not Required)	L.F.	71	201	—	272	
605.0702	Steel Pipe Underdrain 4 5/8 In. Semi Cir. or 6 In. Perf. Corr.	L.F.	93	—	—	93	
605.0901	Underdrain Filter - Type I	C.Y.	56	—	—	56	
609.0301	Stone Curb - Bridge (Type A)	L.F.	—	—	35	35	
166023226	Removing Storing & Resetting Stone Bridge Curb	L.F.	62	—	—	62	
612.01	Sodding	S.Y.	—	—	89	89	
615.03	Watering Plants and Sod	M Gal.	—	—	1.7	2	
619.01	Basic Maintenance & Protection of Traffic	L.S.	—	—	Nec.	Nec.	
620.09	Concrete Block Paving	S.Y.	—	—	54	54	
634.01	Survey and Stakeout	L.S.	—	—	Nec.	Nec.	
15634.0503	Training Special Provision	T.M.H.	—	—	400	400	
637.09	Engineers Office - Type E	M.O.	—	—	1	1	
699.01	Mobilization	L.S.	—	—	Nec.	Nec.	
15699.0001	Fuel Price Adjustment	L.S.	—	—	Nec.	Nec.	
NORTHBOUND							
555.01	Concrete for Structures Class "A"	C.Y.	—	.21	—	1	
15555.2001	High Density Concrete Overlay	S.F.	—	8,820	—	8,820	
15555.3001	Latex Modified Concrete Overlay	S.F.	—	8,820	—	8,820	
556.0202	Epoxy Coated Bar Reinf. for Concrete Structures	Lbs.	90	—	—	90	
567.31	Armored Joint System with Compression Seal (Type AI)	L.F.	—	46	—	46	
567.35	Armored Joint System with Compression Seal (Type AS)	L.F.	—	92	—	92	
570.0302	Maintenance Cleaning & Priming of Structural Steel	L.S.	—	Nec.	—	Nec.	
570.0402	Maintenance Painting of Structural Steel	L.S.	—	Nec.	—	Nec.	
15580.09	Scarification of Structural Slab	S.F.	—	8408	—	8408	
15580.1301	Exposing Reinforce Bars	S.F.	—	121	—	121	
619.01	Basic Maintenance & Protection of Traffic	L.S.	—	—	Nec.	Nec.	
15634.0503	Training Special Provision	T.M.H.	—	—	100	100	
637.09	Engineer Office - Type E	M.O.	—	—	1	1	
699.01	Mobilization	L.S.	—	—	Nec.	Nec.	

## GENERAL NOTES:

Design Specification: New York State Department of Transportation Standard Specifications for Highway Bridges with all provisions in effect as of Nov. 01.

Live Load: HS20-44.

Material and Construction Specifications: Standard Specifications for Construction and Materials, New York State Department of Transportation Design and Construction Division, dated January 2, 1981 with additions and modifications.

The cost of water used for compaction of select fill items shall be paid for under Item 203.1601, Applying Water. (Included in the Highway Estimate)

The cost of furnishing and placing water used for Sod Gutters will be paid for under Item 615.03 (Included in Bridge Estimate)

The cost of furnishing and placing water used for Sod Gutters will be included in the Sodding Item.

The cost of all joint material will be included in the price bid for various items of the Contract, unless otherwise specified on the Plans.

The Contractor shall perform all work with care so that any materials which are to remain in place, or which are to remain the property of the State, will not be damaged. If the Contractor damages any materials which are to remain in place, or which are to remain the property of the State, the damaged materials shall be repaired or replaced in a manner satisfactory to the Engineer at the expense of the Contractor.

Whenever items in the Contract require materials to be removed and disposed of, the cost of supplying a disposal area and transportation to that area shall be included in the unit price bid for those items.

During removal operations, the Contractor shall not be allowed to drop waste concrete, debris and other material to the area below the bridge except where the Plans specifically permit the dropping of material. Platforms, nets, screens or other protective devices shall be used to catch the material. If the Engineer determines that adequate protective devices are not being employed, the work shall be suspended until adequate protection is provided.

All material falling on the area below and adjacent to the bridge shall be removed and disposed of by the Contractor.

The cost of furnishing, installing, maintaining, removing and disposing of all platforms, nets, screens or other protective devices shall be included in the unit bid price of the appropriate items of the Contract.

## SUPERSTRUCTURE NOTES

The structural slab for this structure shall be formed using permanent corrugated metal forms for concrete decks. (See details in Plans, Dwg. No. 15.)

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	NEW YORK	1-481-2(152)
Interstate Rte. 571 Extension Collamer Interchange to Mont Orondaga County		
CAPITAL PROJECT IDENTIFICATION NO		

## SUBSTRUCTURE NOTES

Unsuitable material, including topsoil, shall be removed from beneath substructures placed on fills less than 20 feet in height. The fill shall be measured from the original ground surface to the top of the grade line. Replacement of the removed material shall be done with Item indicated on the Contract Plans.

All embankments of Select Structure Fill, Item 203.21 shall be to 100 percent of standard Proctor maximum density as defined under 203-3.12 - Compaction.

Embankment in Place, Item 203.03, and Select Structure Fill, shall be placed simultaneously, in contact, on both sides of the payment line. Sheet piling or other means shall not be used to separate two materials.

The installation of Select Structure Fill, Item 203.21, as shown on the Structural Plans, shall be completed immediately following the of abutments or walls.

Excavation below planned footing elevation will not be allowed without written permission from the Engineer. Backfill of unauthorized excavation below or beyond payment lines will be at the Contractor's expense. Fill material will be Class 8 Concrete unless otherwise directed by the Engineer.

Epoxy Protective Coating for Concrete, Item 559.01, shall be applied to the following surfaces:

**ABUTMENTS:** All exposed pedestal surfaces, bridge seats, exposed vertical surfaces of abutments, and curtainwalls facing the superstructure.

The Contractor, with the permission of the Deputy Chief Engineer may elect to introduce construction joints in the abutments as shown on the Plans. These construction joints shall be provided with keys and waterstops. Vertical construction joints introduced in should preferably be placed midway between the pedestals.

Epoxy Protective Coating for Concrete, Item 559.01, shall be applied to the following surfaces:

**ABUTMENTS:** All new exposed pedestal surfaces, bridge seats, exposed vertical surfaces of abutments, and curtainwalls facing the superstructure.

**PIER:** All new pedestal surfaces, including the area under the bearings.

STRUCTURAL STEEL-TOTAL WEIGHT FOR PROGRESS PAYMENT			
ITEM NUMBER	WEIGHT (LBS)	LOCATION	
		SOUTHBOUND	NORTHBOUND
564.050601	56,850	SPANS 1 & 2	

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION
NY & SB 1-481 OVER N.Y.S. THRUWAY
ESTIMATE \$ NO



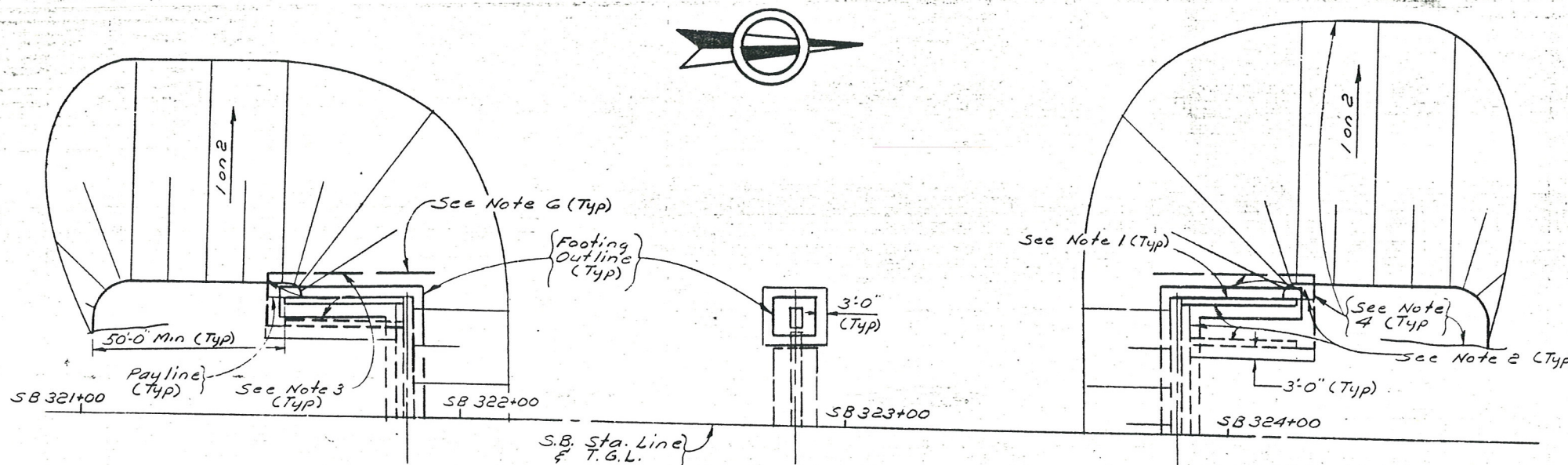
1093682

D250094

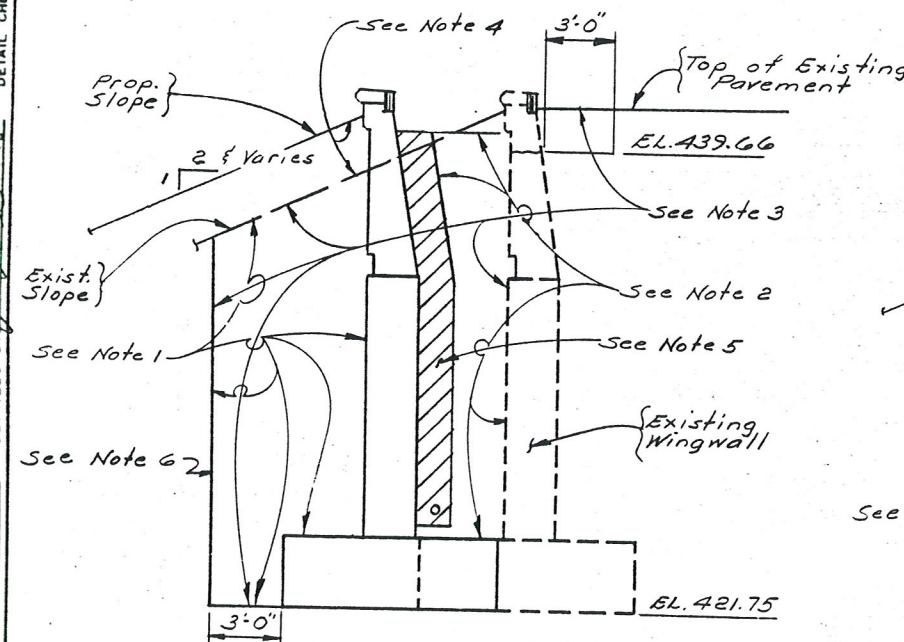
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	NEW YORK	1-481-2(152)	292	312
Interstate Rte. 571 Extension (I-481) Collamer Interchange to Northern Blvd. Onondaga County				
CAPITAL PROJECT IDENTIFICATION NO.				

# NOTES

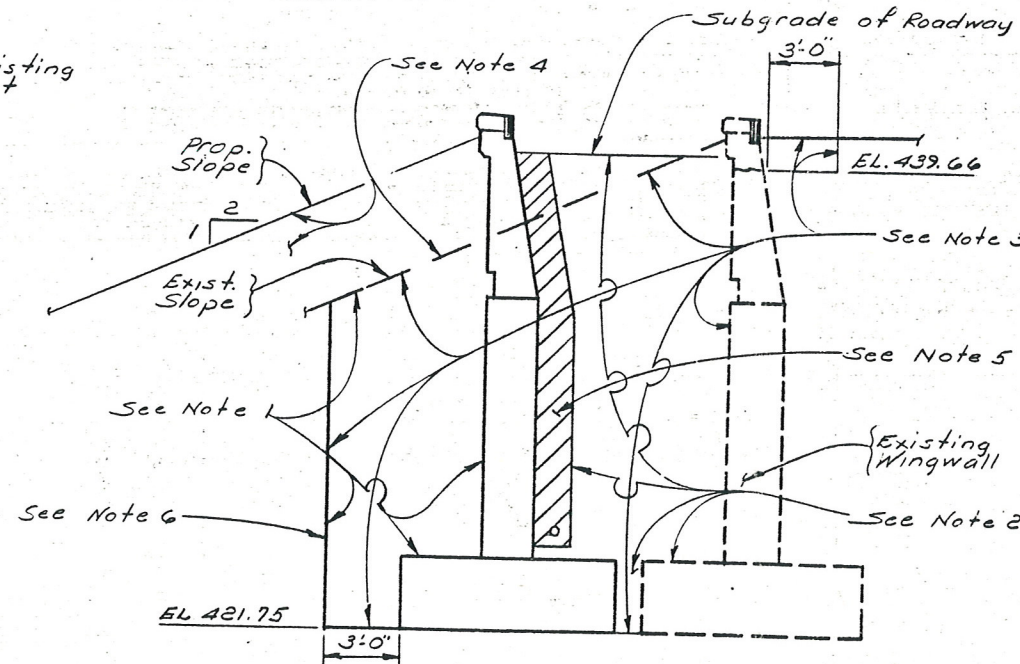
1. Backfill with suitable excavated material as provided for under Item 206.01, Structure Excavation.
2. Backfill with Item 203.21, Select Structure Fill to subgrade elevation after abutment construction.
3. Paylines for Structure Excavation, Item 206.01.
4. Paylines for Highway Embankment Material (In Hwy. Est.)
5. Place Item 605.0901, Underdrain Filter, Type I to subgrade of roadway. For additional details see "Structure Backfill Placement" this drawing.
6. Safe Operation Sheet Piling Item 552.05 to be used where excavation depth exceeds 5'-0".
7. For additional notes, see dwg. no. 3.
8. For Concrete removal Item and limits see Abutment drawings.



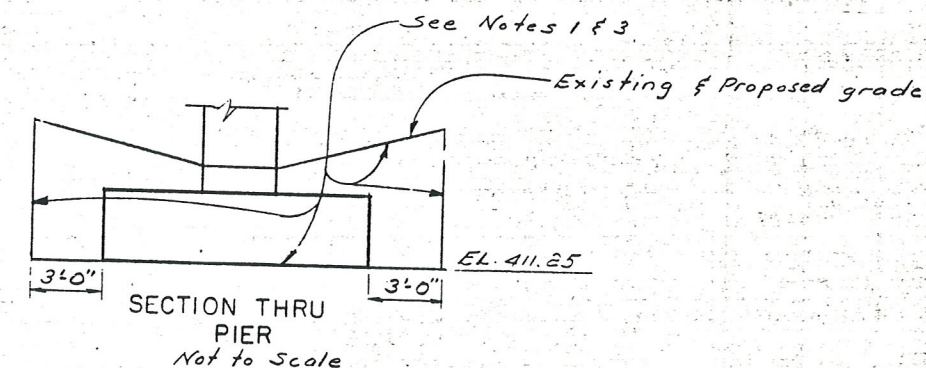
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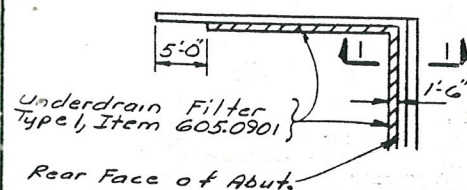
SECTION THRU  
SOUTHWEST WINGWALL  
Scale: 1/4"=1'-0"



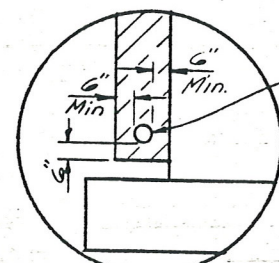
SECTION THRU  
NORTHWEST WINGWALL  
Scale: 1/4"=1'-0"



SECTION THRU  
PIER  
Not to Scale

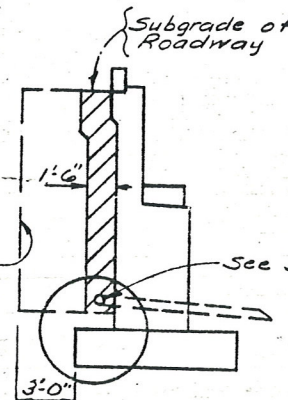


PLAN



STRUCTURE BACKFILL PLACEMENT  
Not to Scale

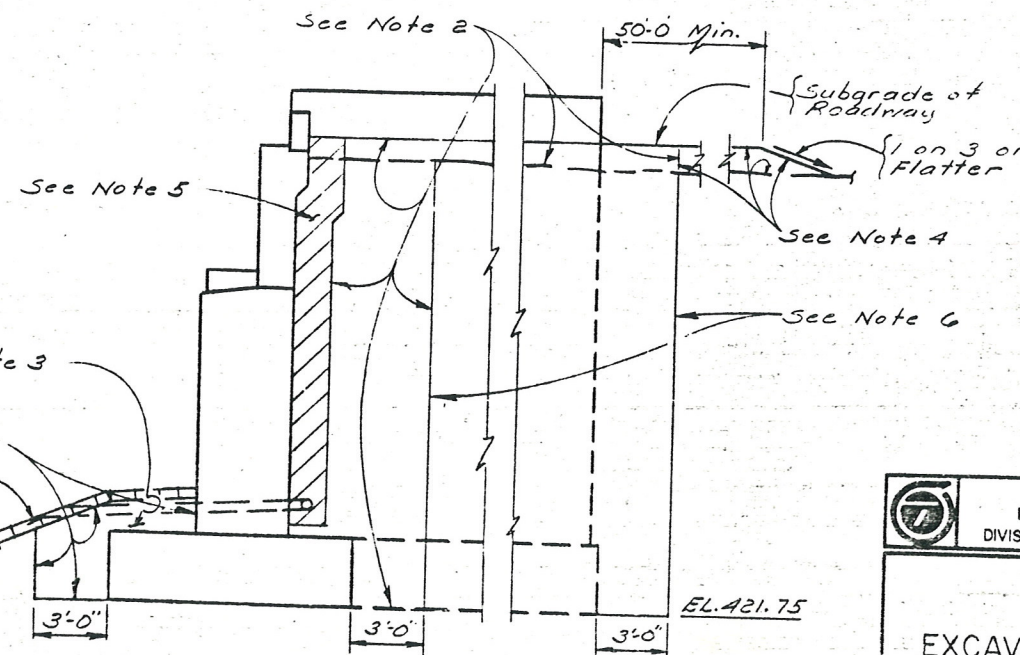
Item 605.0702  
Limits of Special  
Placement Procedure  
See Specification  
605-3.03



SECTION I-I

For limits of Cong.  
Block Paving Item  
620.09 See dwg.  
No. 1.

Note:  
Wingwall Elevation  
Limits Projected  
to Section Line



SECTION THRU NORTH ABUTMENT  
SOUTH ABUTMENT SIMILAR  
Scale: 1/4"=1'-0"

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION	
SOUTHBOUND I-481 OVER N.Y.S. THRUWAY	
EXCAVATION & BACKFILL	
PROJ. ENG. <i>Ed. Barry</i>	DATE MADE



FED. NO. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-481-2(152)	293	312
Interstate Rte. 571 Extension (I-481) Collamer Interchange to Northern Blvd. Onondaga County				
CAPITAL PROJECT IDENTIFICATION NO.				

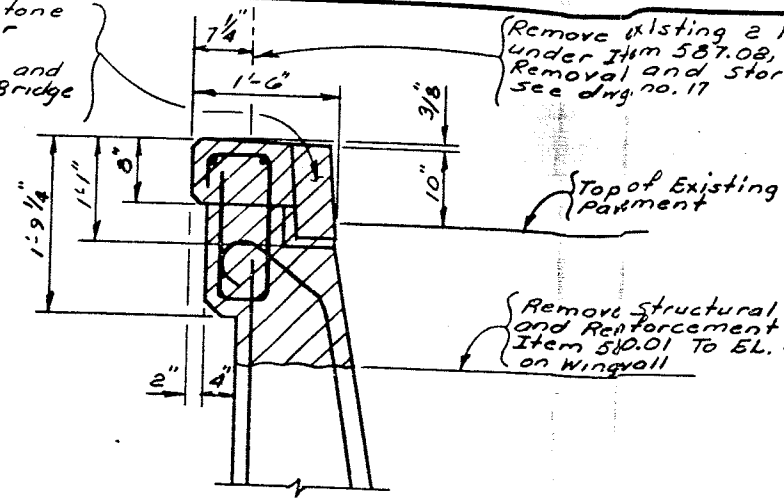
Note  
\* The removal limit ( $3\frac{1}{2}$ "±) is based on using  $1\frac{1}{2}$ " overlay and a proposed 5" header (see dwg. no. E1) If another overlay depth is used the  $3\frac{1}{2}$ "± dimension will have to be adjusted



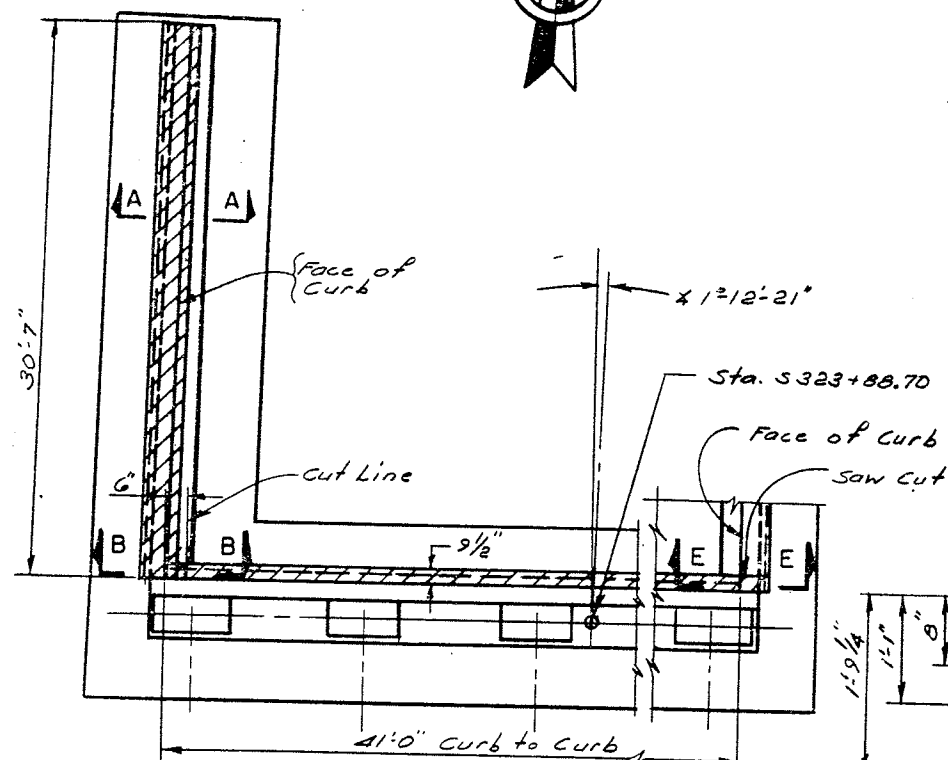
Remove existing stone Bridge Curb Under Item 16609.3226 Removing, Storing and Resetting stone Bridge Curb.

Remove existing 2 Rail Bridge Railing under Item 587.08, Bridge Railing Removal and Storage. To be reset see dwg. no. 17

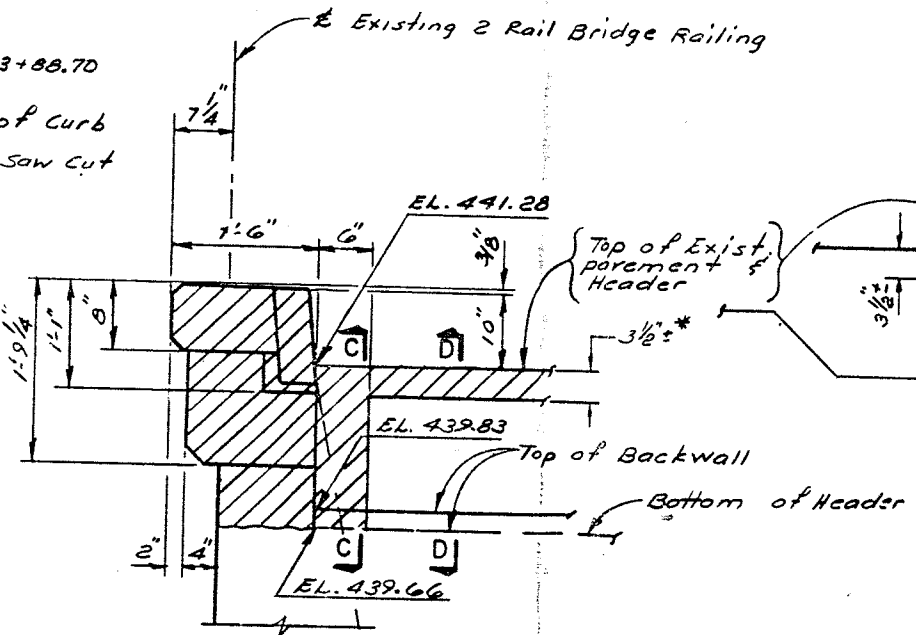
Remove structural Concrete and Reinforcement under Item 580.01 To EL. 439.66 on Wingwall



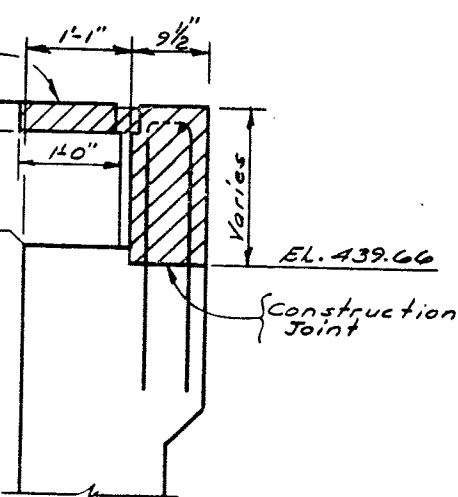
SECTION A-A  
Scale: 1 1/2"=1'-0"



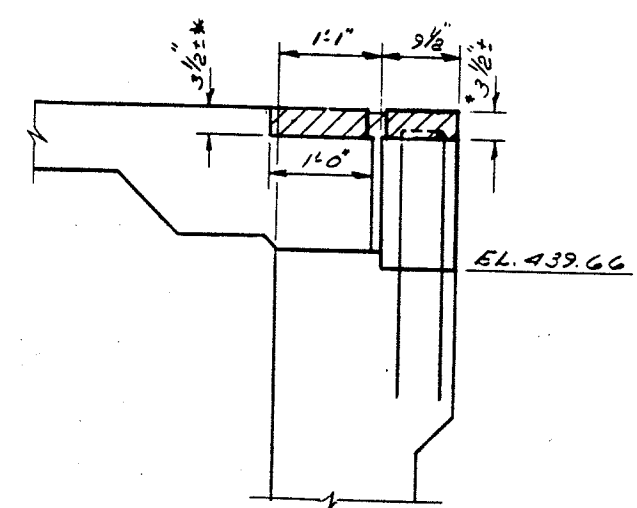
PARTIAL PLAN  
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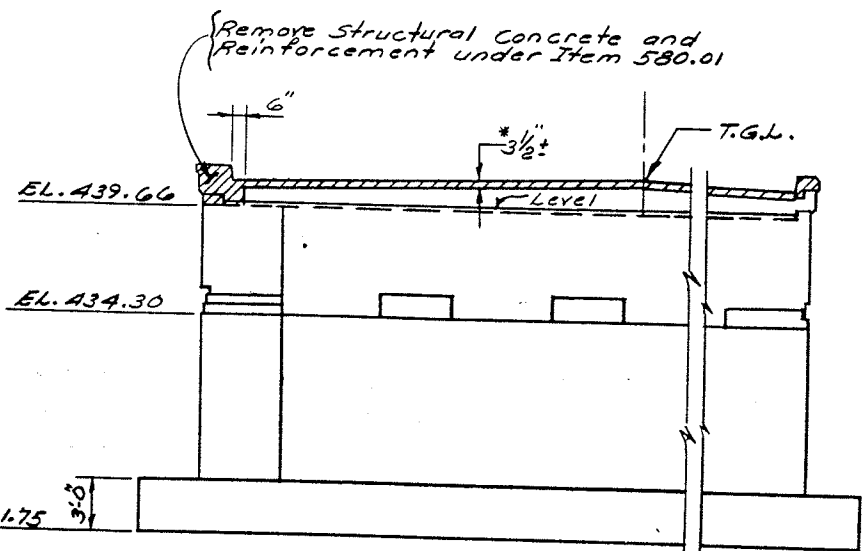
SECTION B-B  
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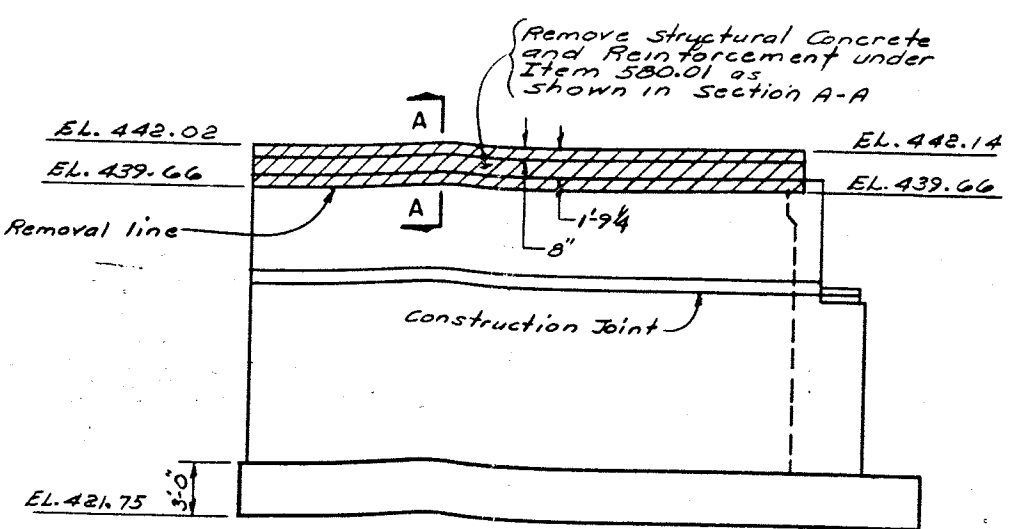
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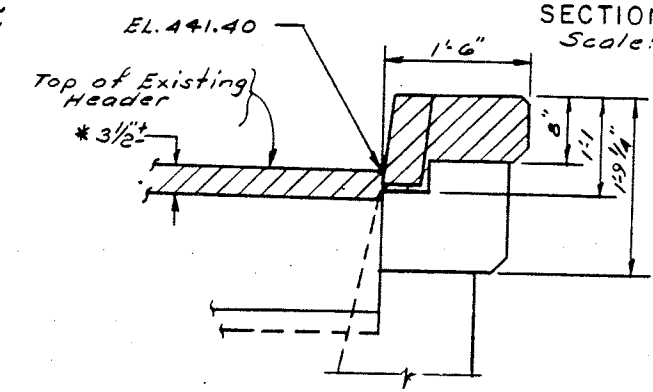
SECTION D-D  
Scale: 1 1/2"=1'-0"



PARTIAL ELEVATION  
Scale: 3/16"=1'-0"



ELEVATION  
NORTHWEST WINGWALL



SECTION E-E  
Scale: 1 1/2"=1'-0"

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF DESIGN AND CONSTRUCTION

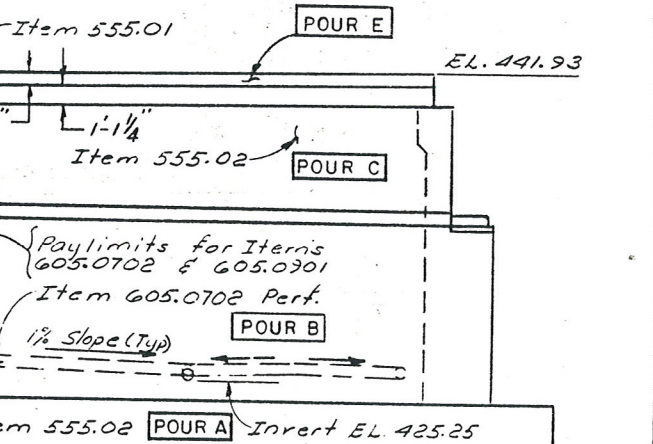
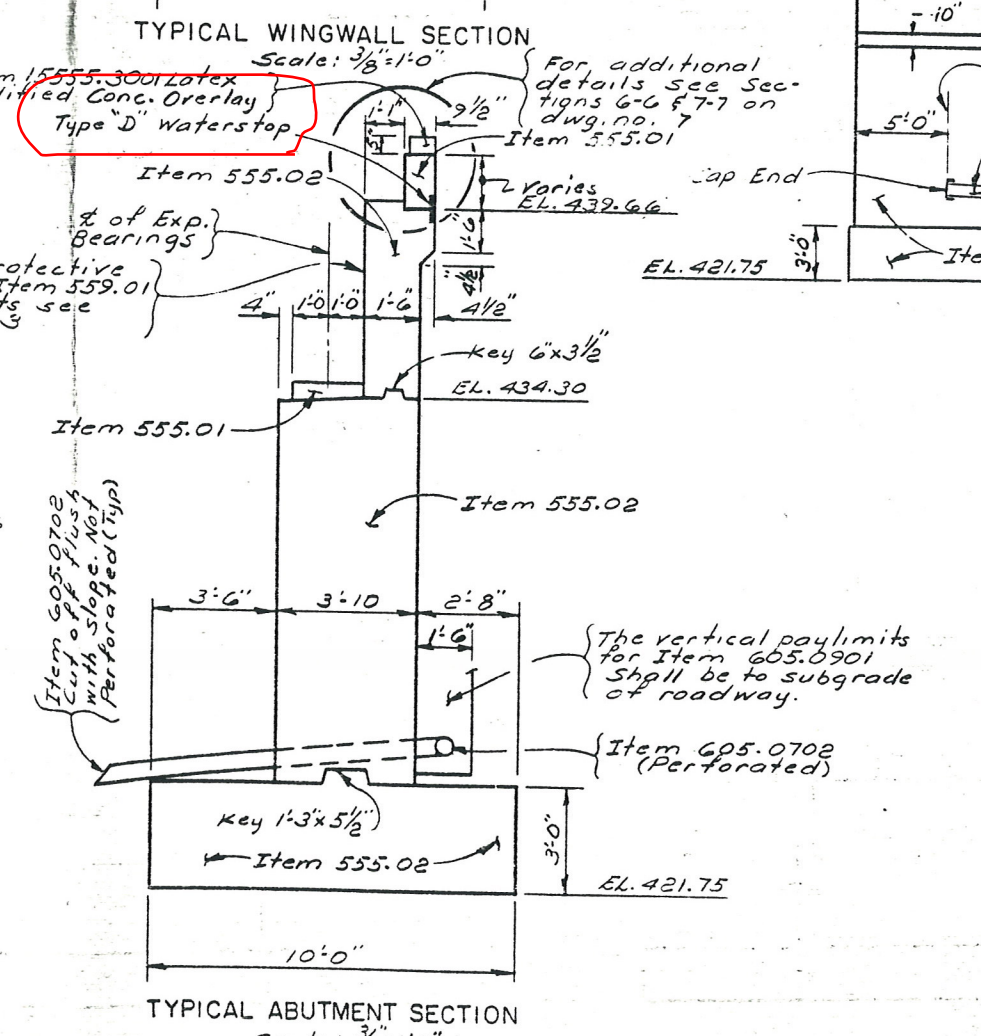
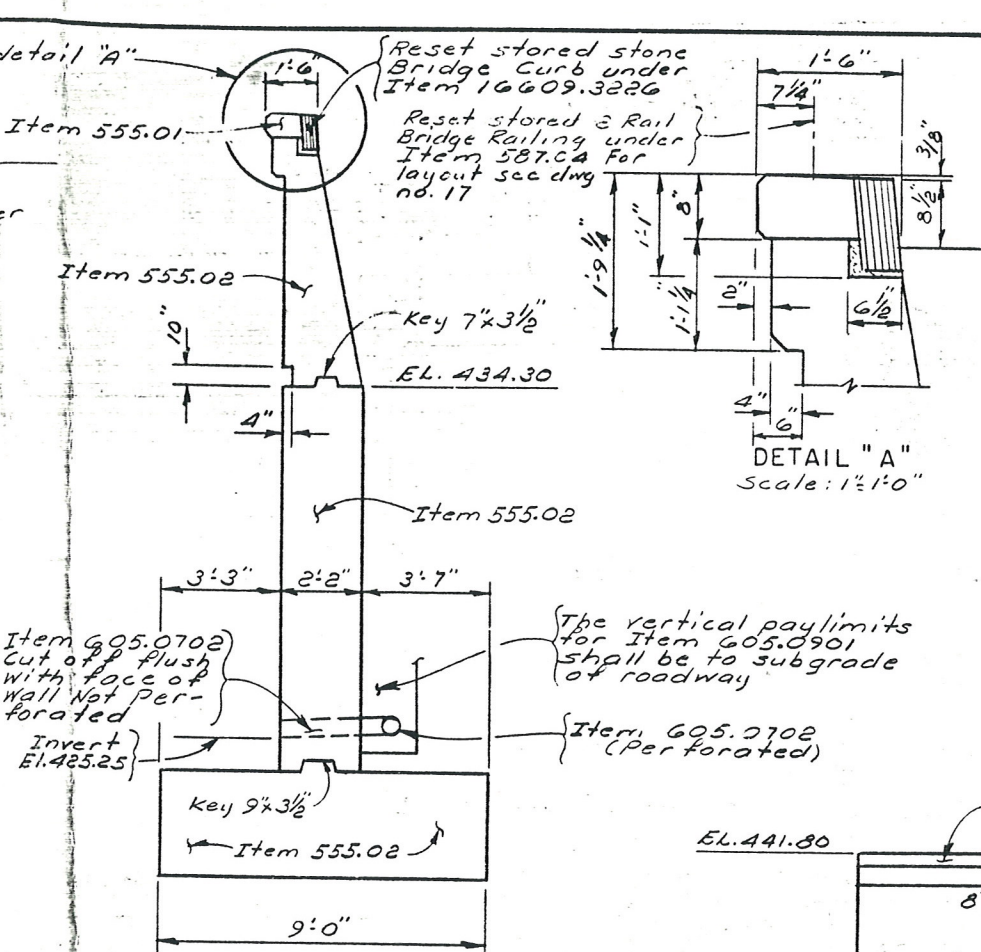
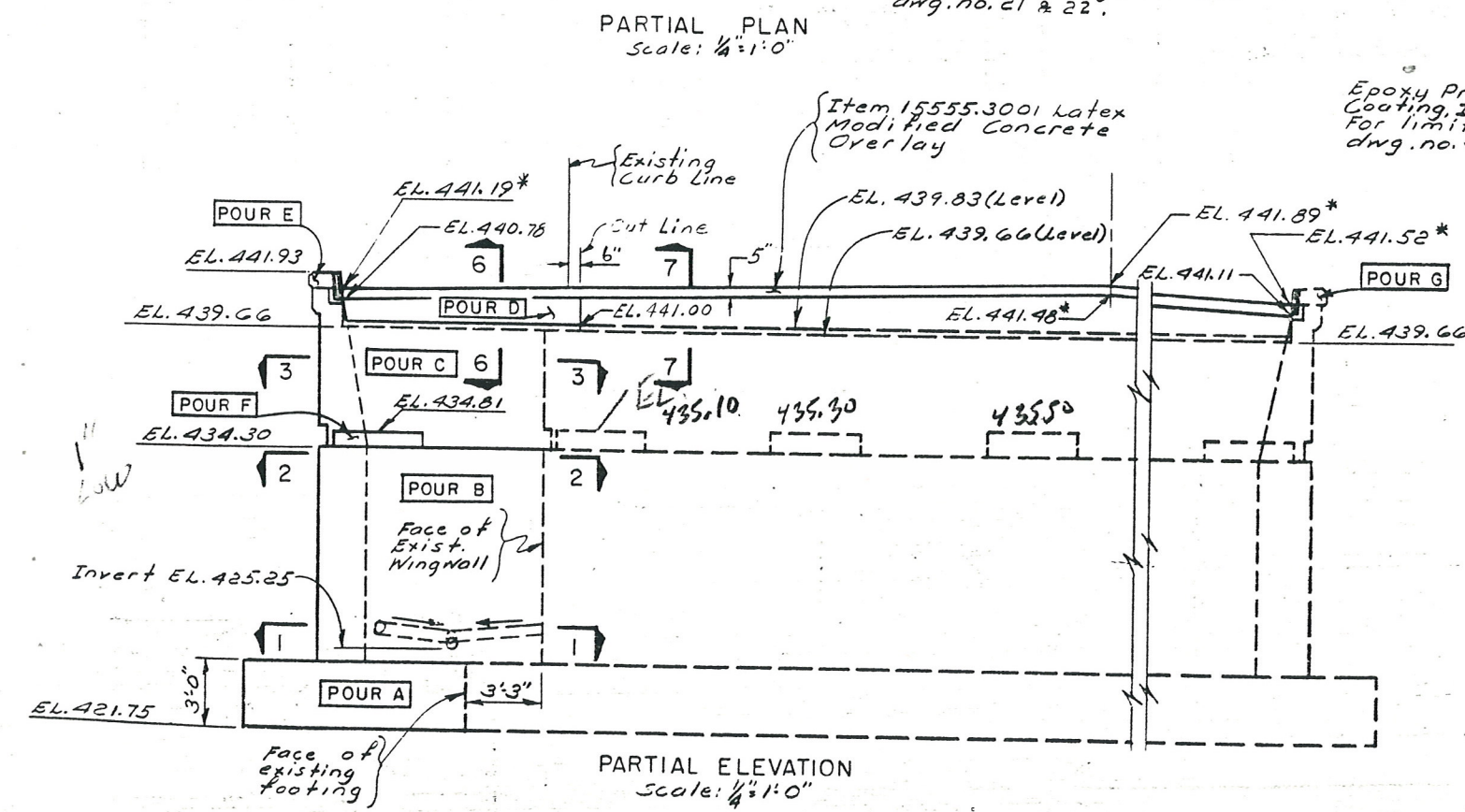
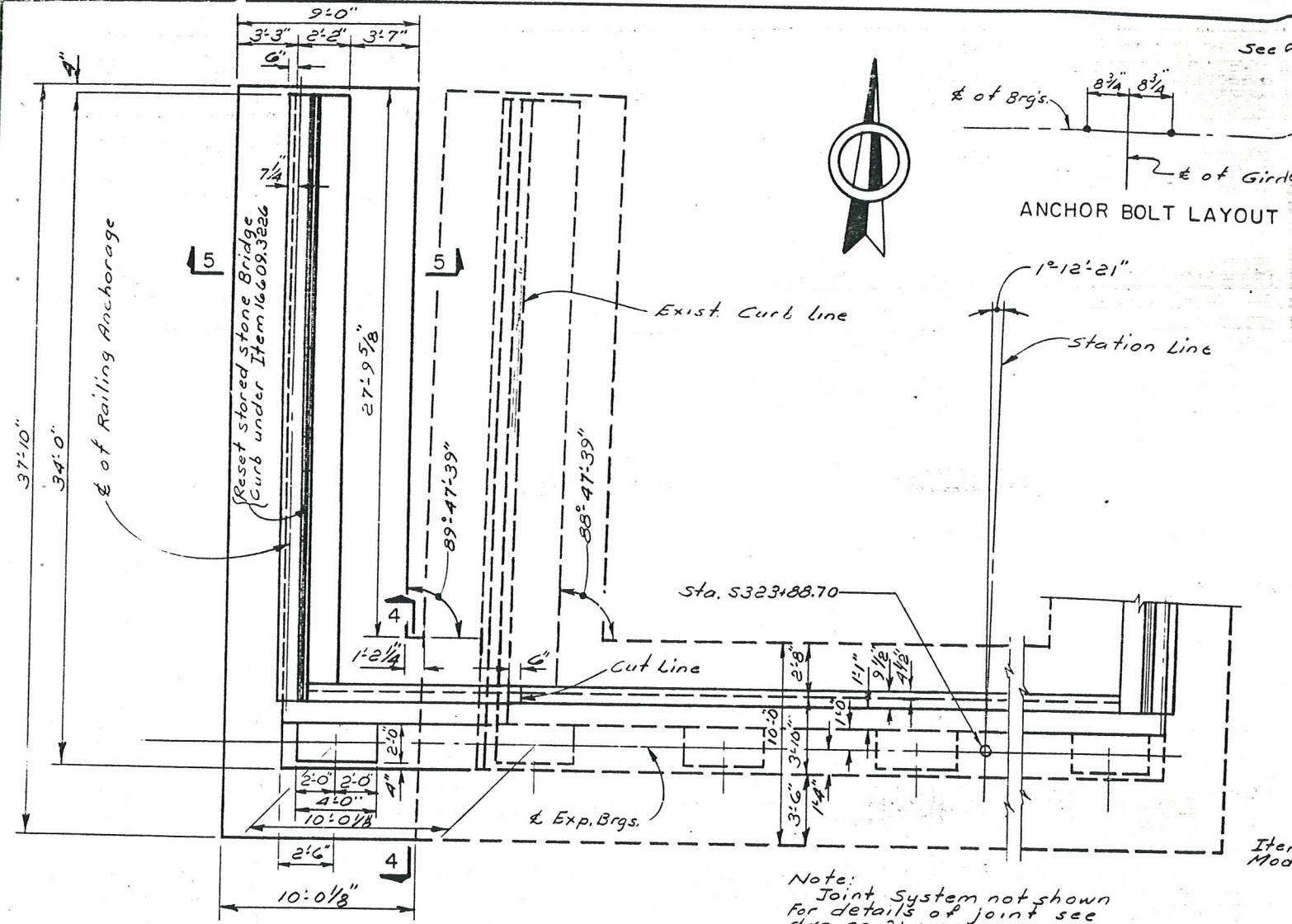
SOUTHBOUND I-481 OVER  
N.Y.S. THRUWAY

**NORTH ABUTMENT  
(REMOVAL)**



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1-481-2(152)	294	312
Interstate Rte. 571 Extension (I-481) Collamer Interchange to Northern Blvd. Onondaga County				
CAPITAL PROJECT IDENTIFICATION NO.				

NORTH ABUTMENT		
LOCATION	ITEM 555.01	ITEM 555.02
POUR A		38.95 CY
POUR B		36.69 CY
POUR C		15.31 CY
POUR D	.33 CY	
POUR E	.81 CY	
POUR F	.15 CY	
POUR G	.02 CY	
TOTALS	1.31 CY	90.95 CY



**NOTE**  
\* The top of roadway elevations are shown using 1 1/2" Latex Modified Concrete Overlay. If the High Density Concrete Overlay or a Latex Modified Concrete Overlay greater than 1 1/2" is used the roadway elevations will have to be adjusted.

For Sections 1-1 Thru 7-7 See Dwg. No 7  
For design purposes the foundation pressure on the extension does not exceed 2 1/2 tons per square foot.

STATE OF NEW YORK  
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SOUTHBOUND I-481 OVER  
N.Y.S. THRUWAY

**NORTH ABUTMENT  
PROPOSED (1 OF 2)**

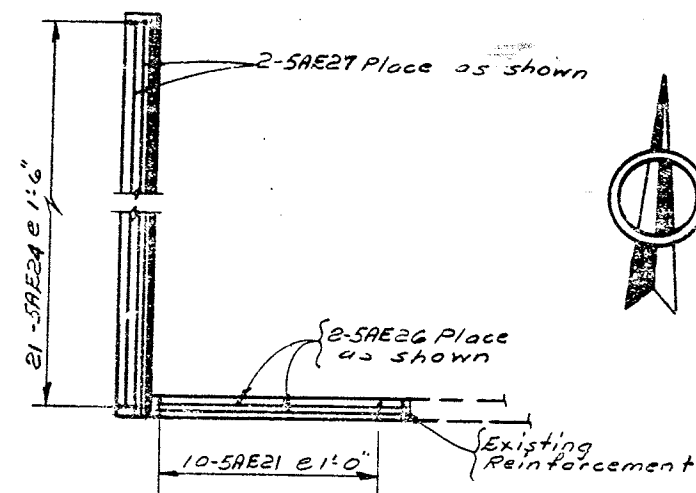
PROJ. ENG. *[Signature]* DATE MADE *[Date]*



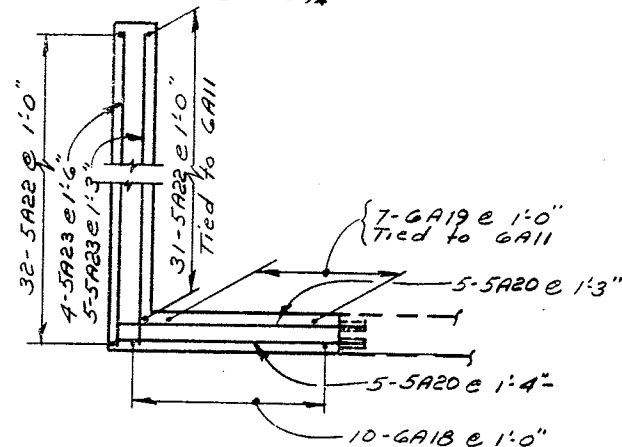
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	NEW YORK	1-481-2(152)	295	312

Interstate Rte. 571 Extension (I-481)  
Collamer Interchange to Northern Blvd.  
Onondaga County

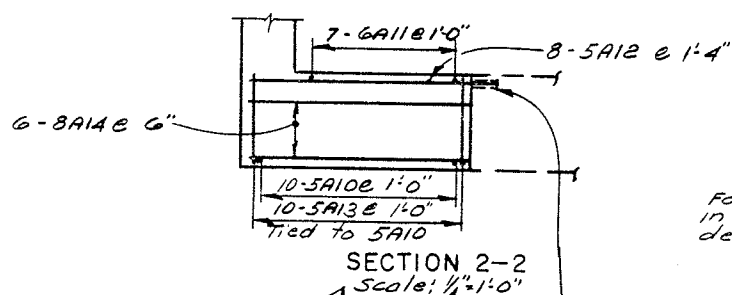
CAPITAL PROJECT IDENTIFICATION NO.



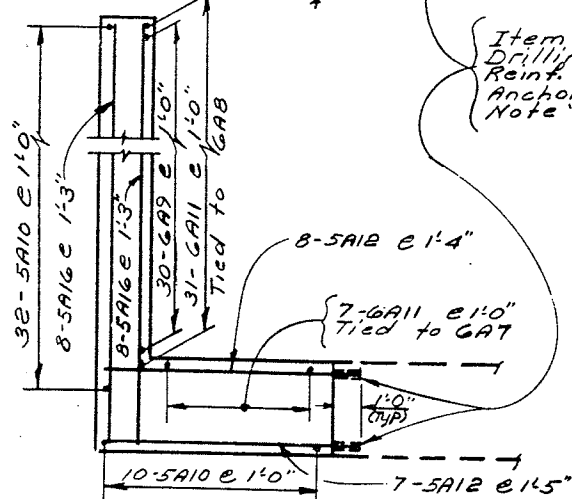
PLAN  
HEADER & OVERLAY  
Scale 1/4"=1'-0"



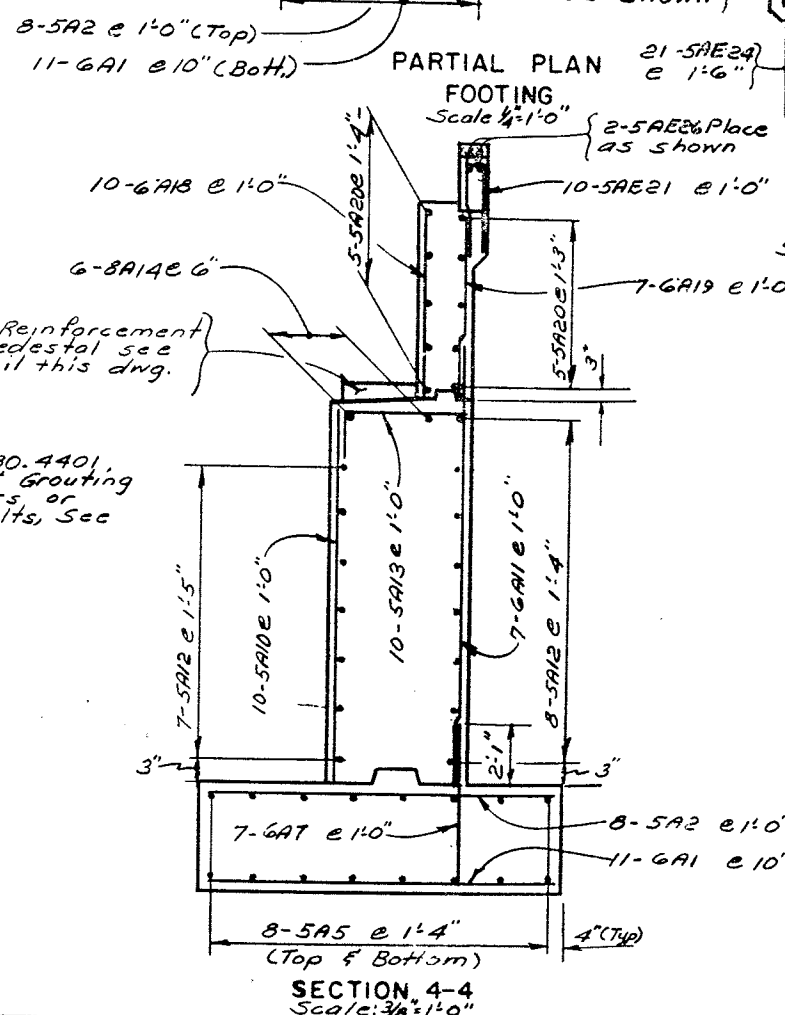
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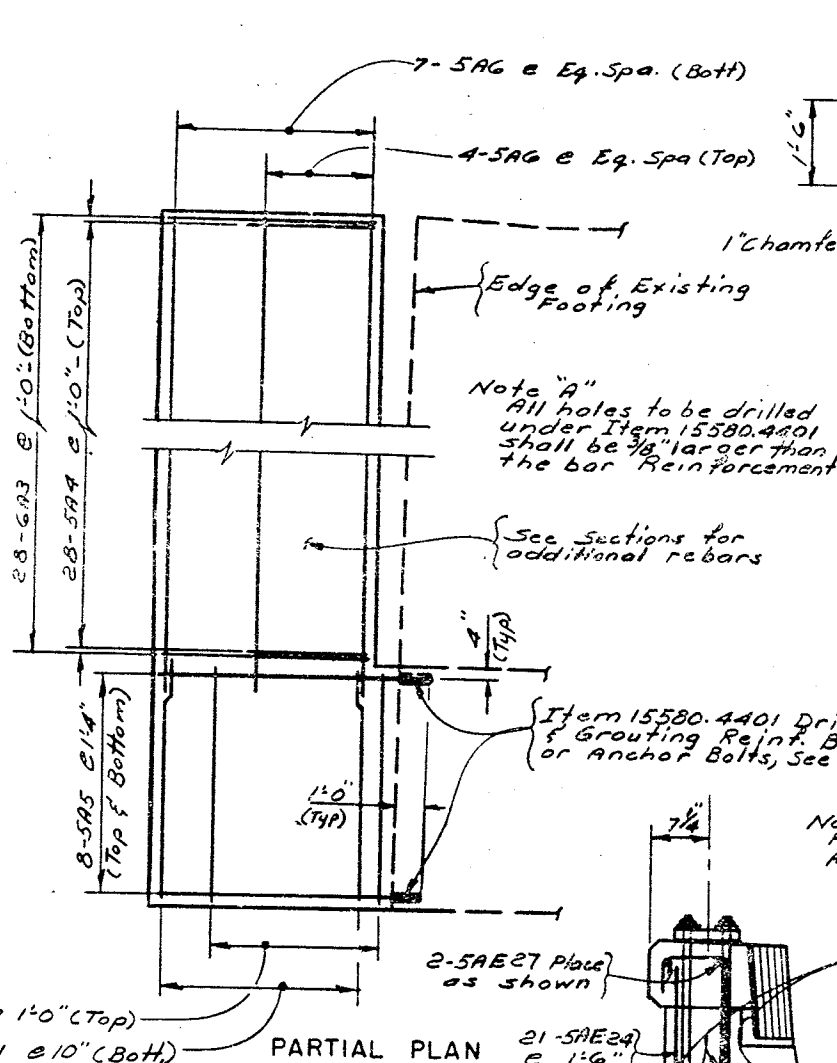
SECTION 2-2  
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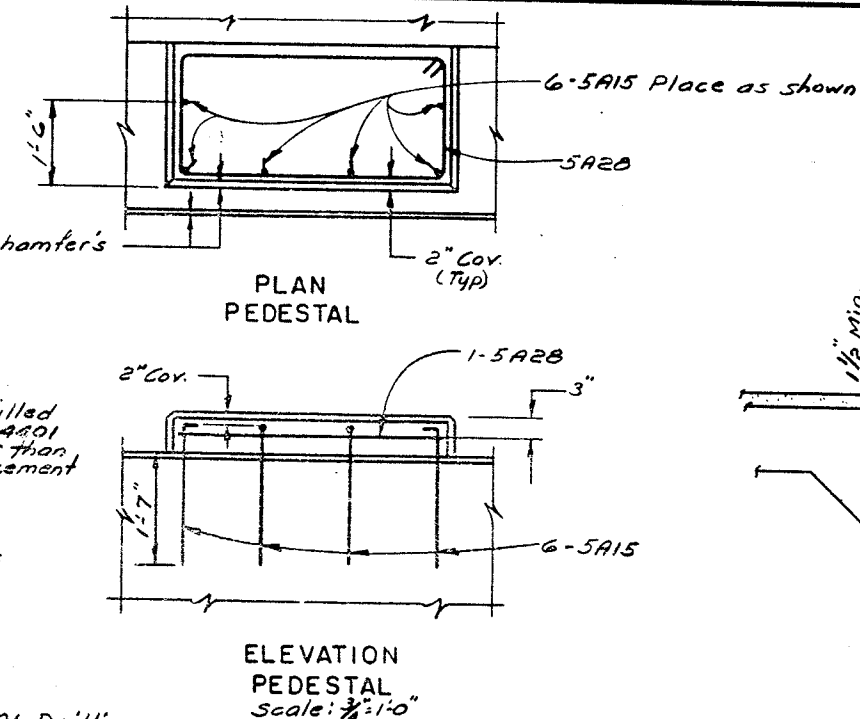
SECTION 1-1  
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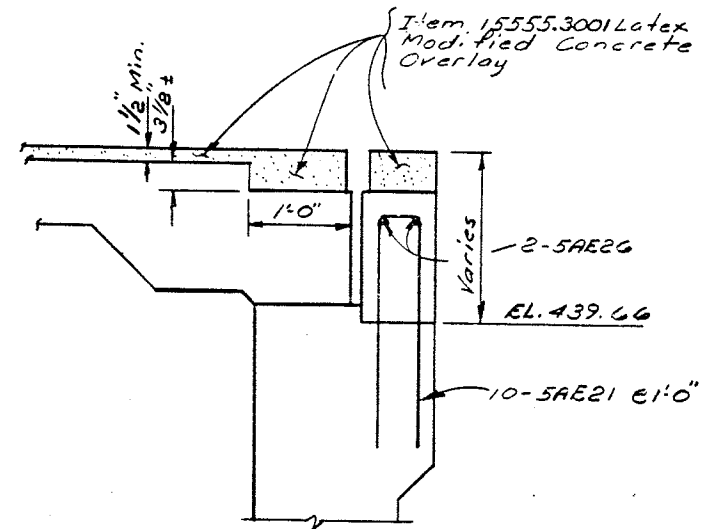
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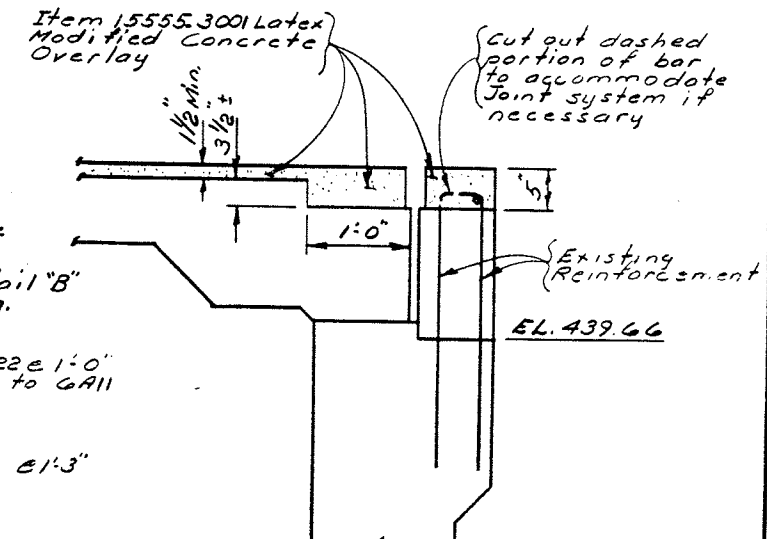
DETAIL "B"  
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ELEVATION  
PEDESTAL  
Scale: 3/4"=1'-0"



SECTION 6-6  
Scale: 1/2"=1'-0"



SECTION 7-7  
Scale: 1/2"=1'-0"

Note  
For location of Section 1-1 thru 7-7 See dwg no. 6

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF DESIGN AND CONSTRUCTION

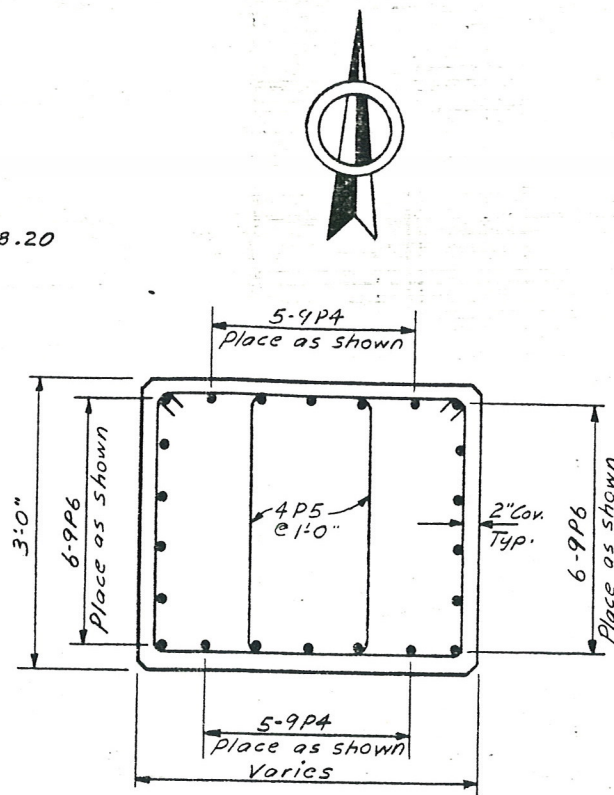
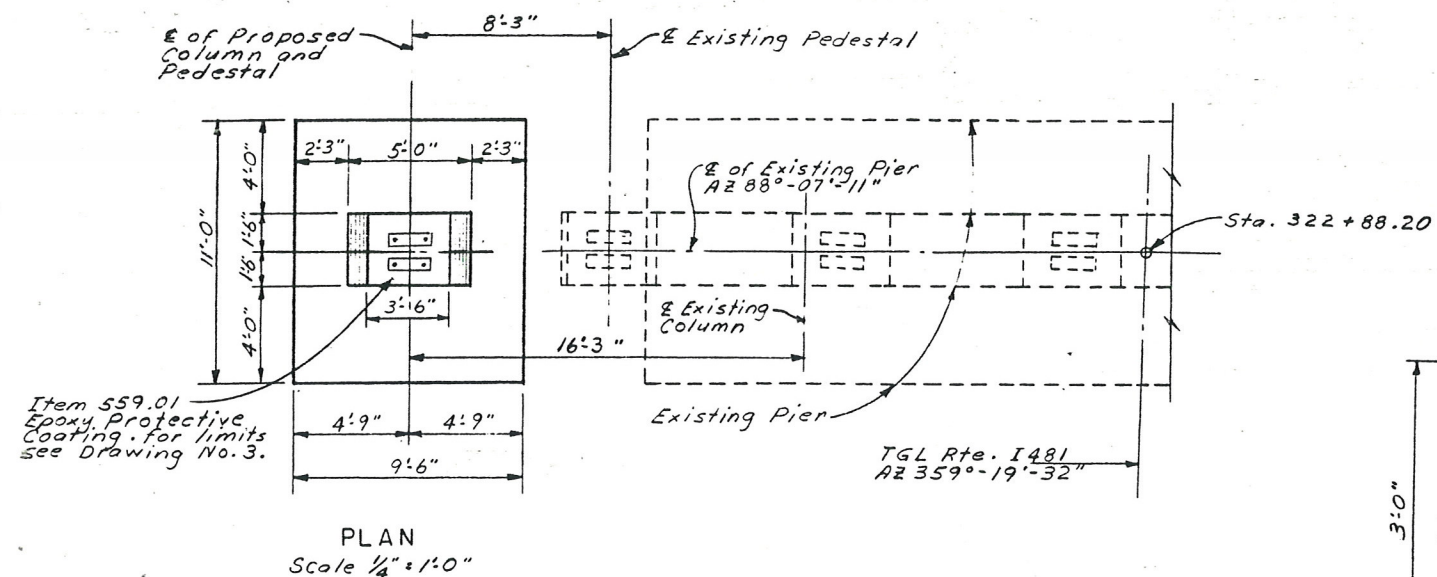
SOUTHBOUND I-481 OVER  
N.Y.S. THRUWAY

NORTH ABUTMENT  
PROPOSED (2 OF 2)

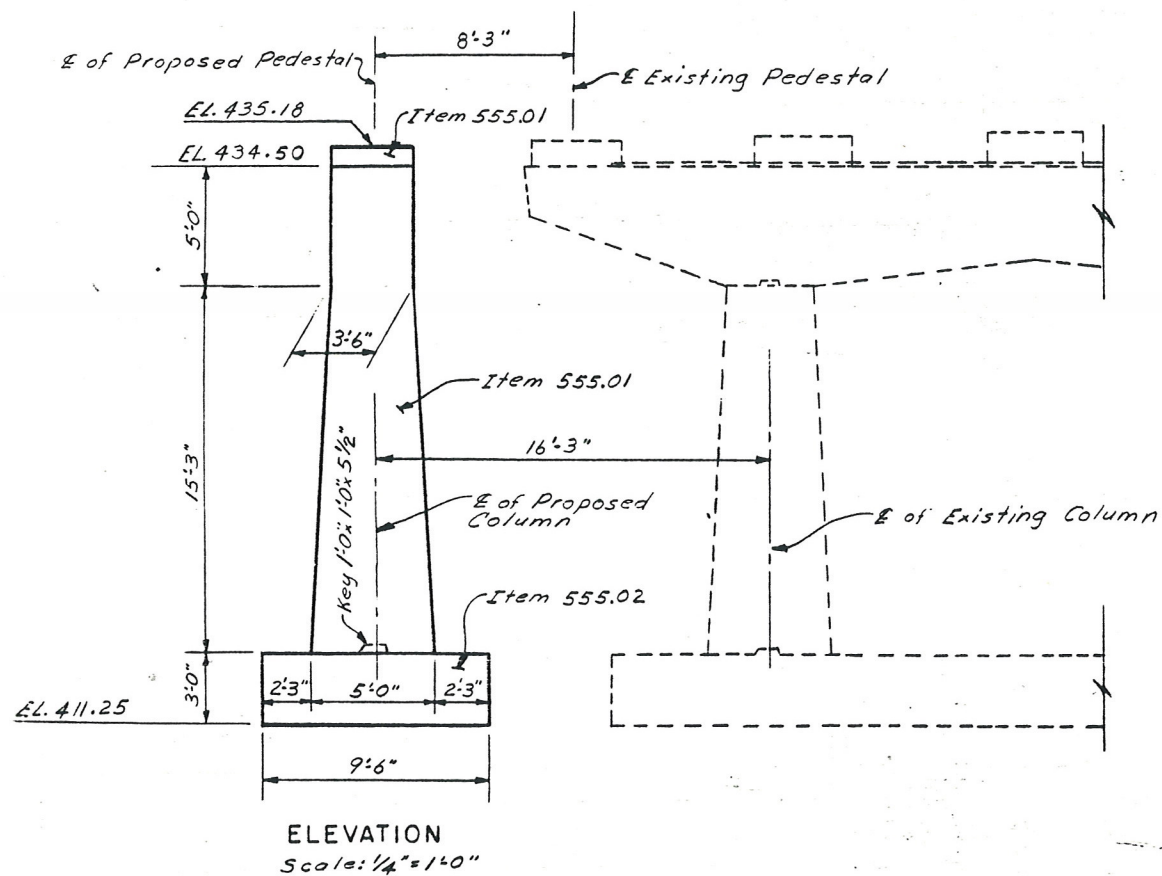
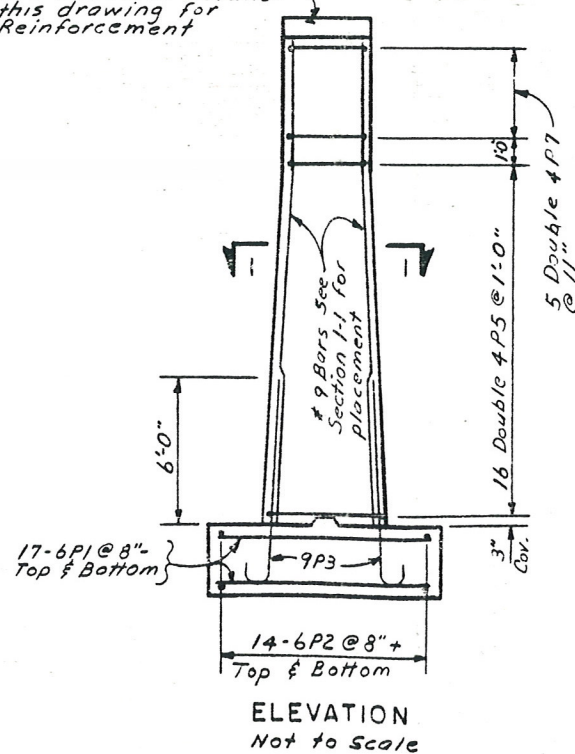
PROJ. ENG. *E. J. Barag* DATE MADE *11-27-72*

**NOTE:**

For details of Bearing and Anchor Bolts  
See Drawing No. 16

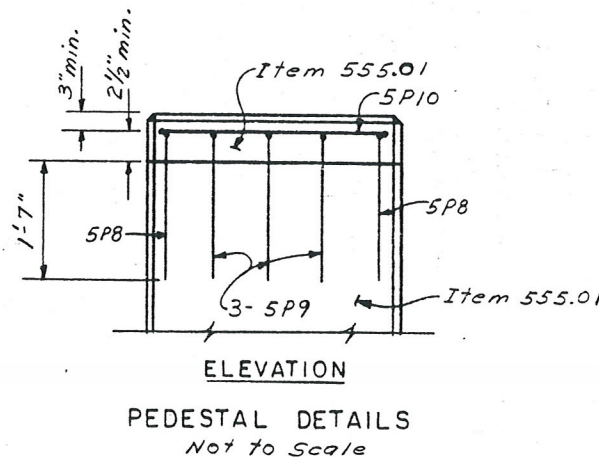
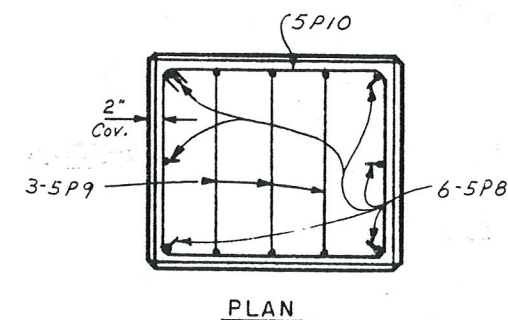


See Pedestal Details  
this drawing for  
Reinforcement



LOCATION	CONCRETE	
	ITEM 555.01	ITEM 555.02
FOOTING	—	11.61 C.Y.
COLUMN	9.15 C.Y.	—
PEDESTAL	.26 C.Y.	—
TOTAL	9.41 C.Y.	11.61 C.Y.

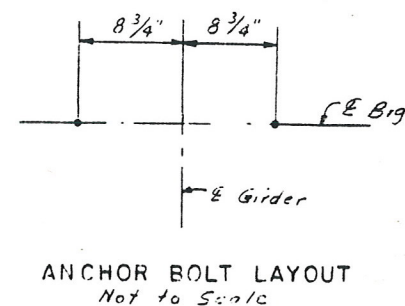
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-481-2(152)	296	312
Interstate Rte. 571 Extension (I-481) Collamer Interchange to Northern Blvd. Onondaga County				
CAPITAL PROJECT IDENTIFICATION NO.				




**NOTES:**

The Contractor's attention is directed to the possibility of the soil described as silty fine sand and silt; fine gravelly being easily disturbed by construction traffic and precipitation upon exposure. Provision is, therefore, made for an undercut to construct a working platform of compacted Item No. 203.21 at the proposed pier should this become necessary. The Regional Soils Engineer shall be notified to be present during the final foot of excavation to the proposed pier footing elevation. The Regional Soils Engineer shall inspect the exposed soil at the proposed pier footing elevation and determine the need for and extent of a one(1') foot undercut to construct a working platform of compacted Item No. 203.21. The undercut recommended by the Regional Soils Engineer shall not exceed one(1') foot without the prior approval of the Deputy Chief Engineer (Structures).

For design purposes the foundation pressure of the extension does not exceed 2 1/2 Tons per square foot.

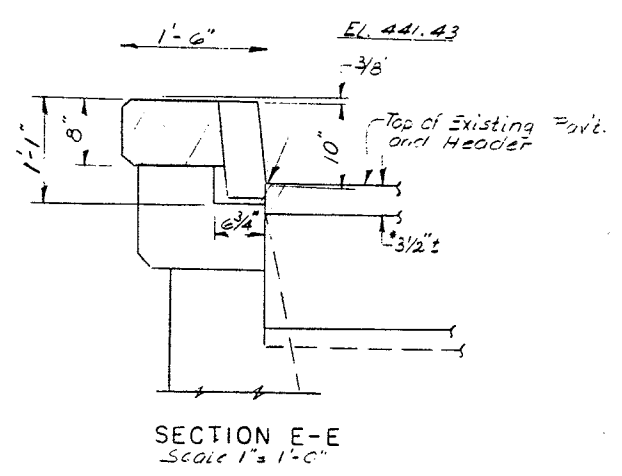
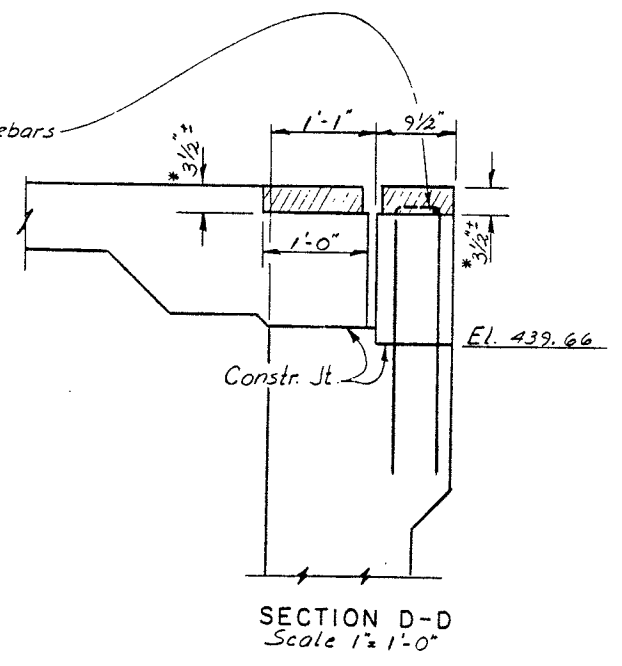
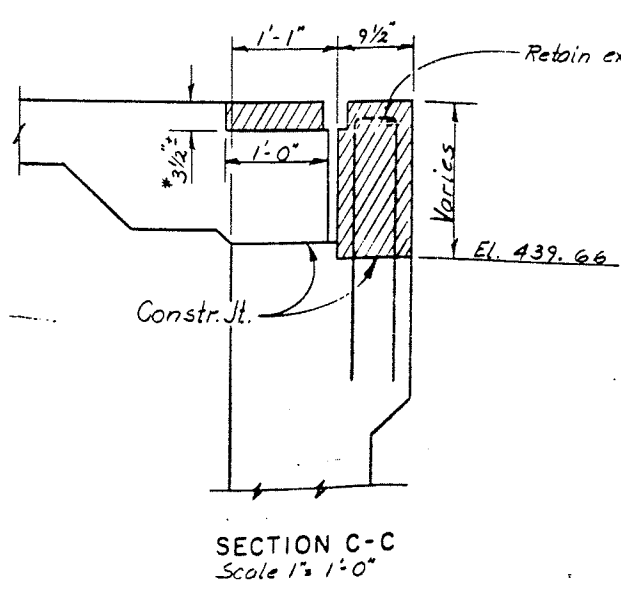
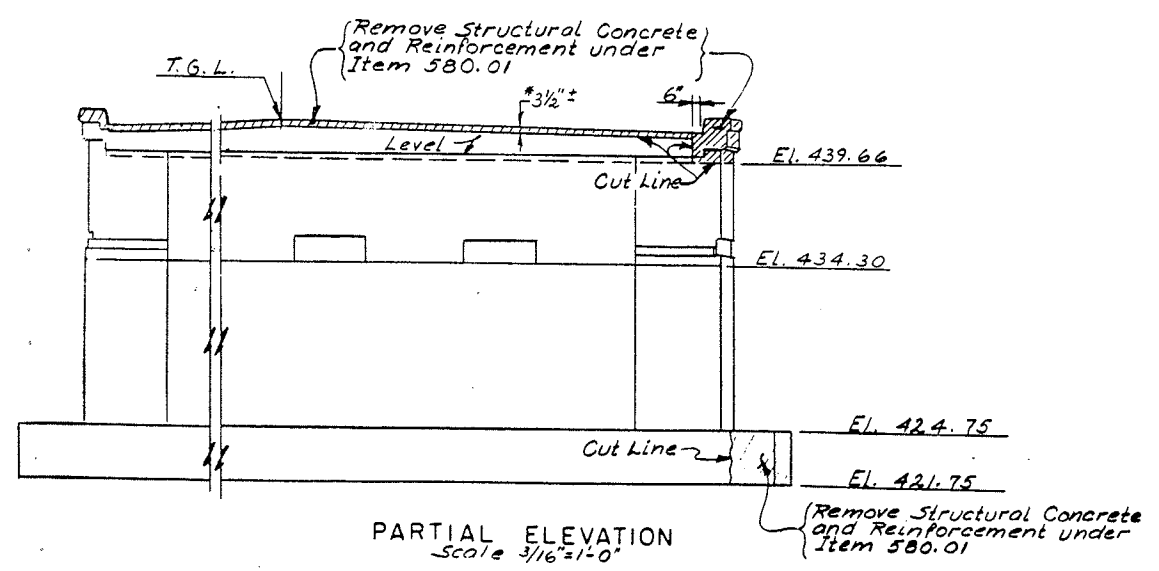
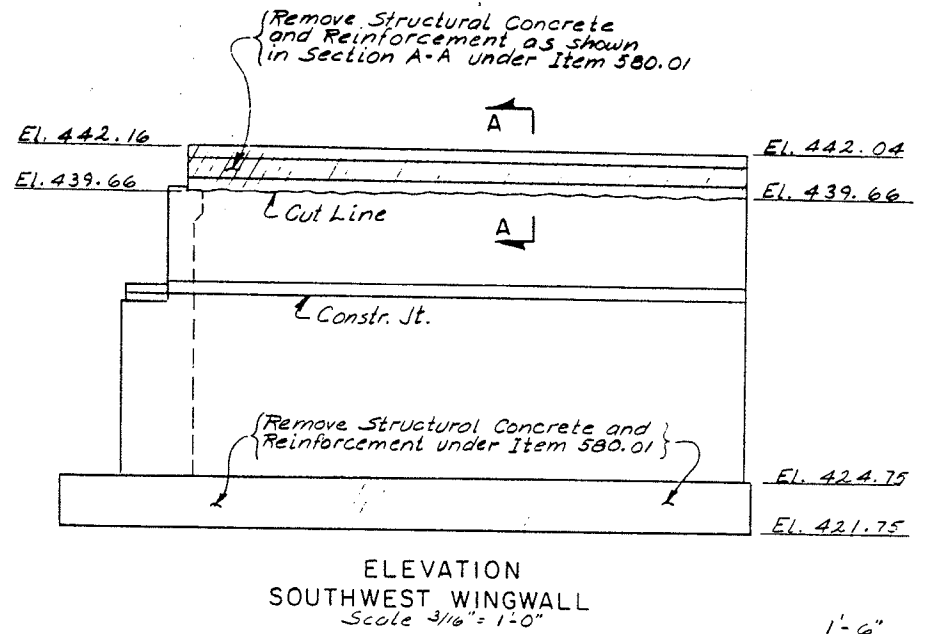
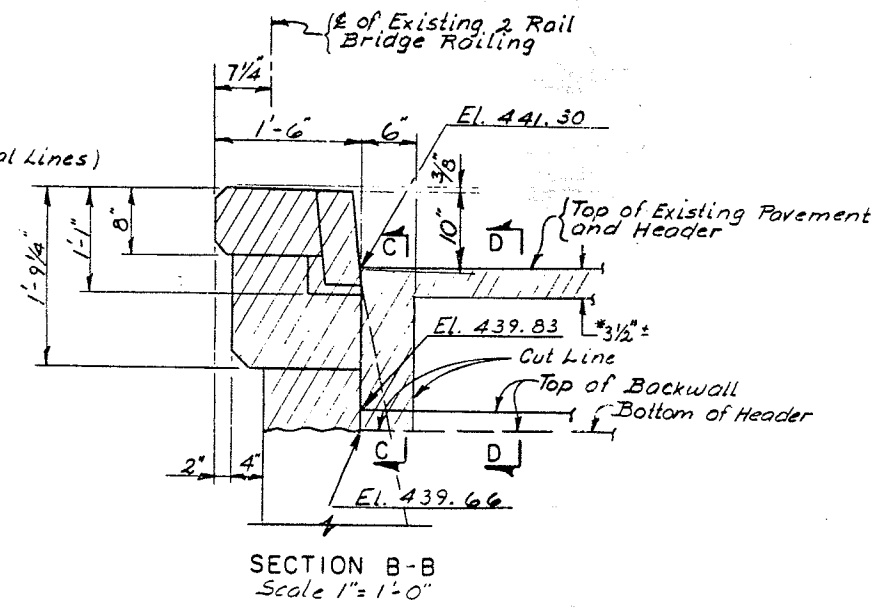
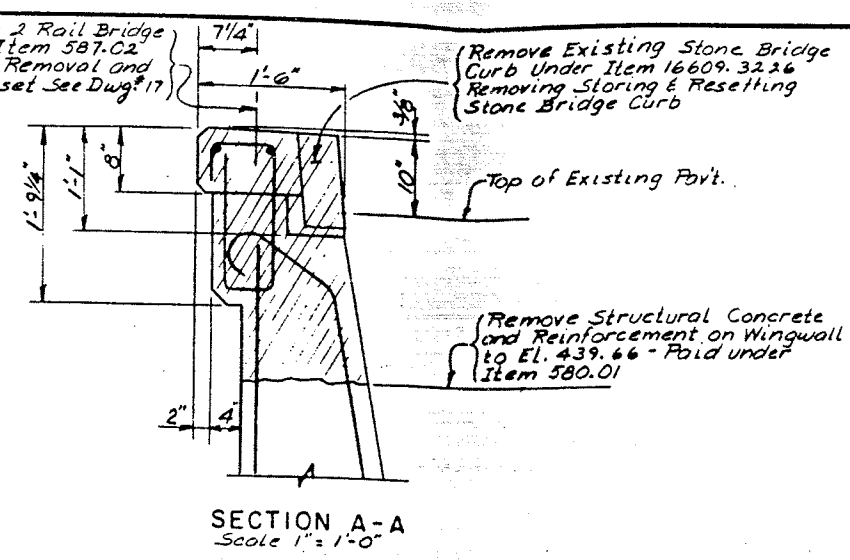
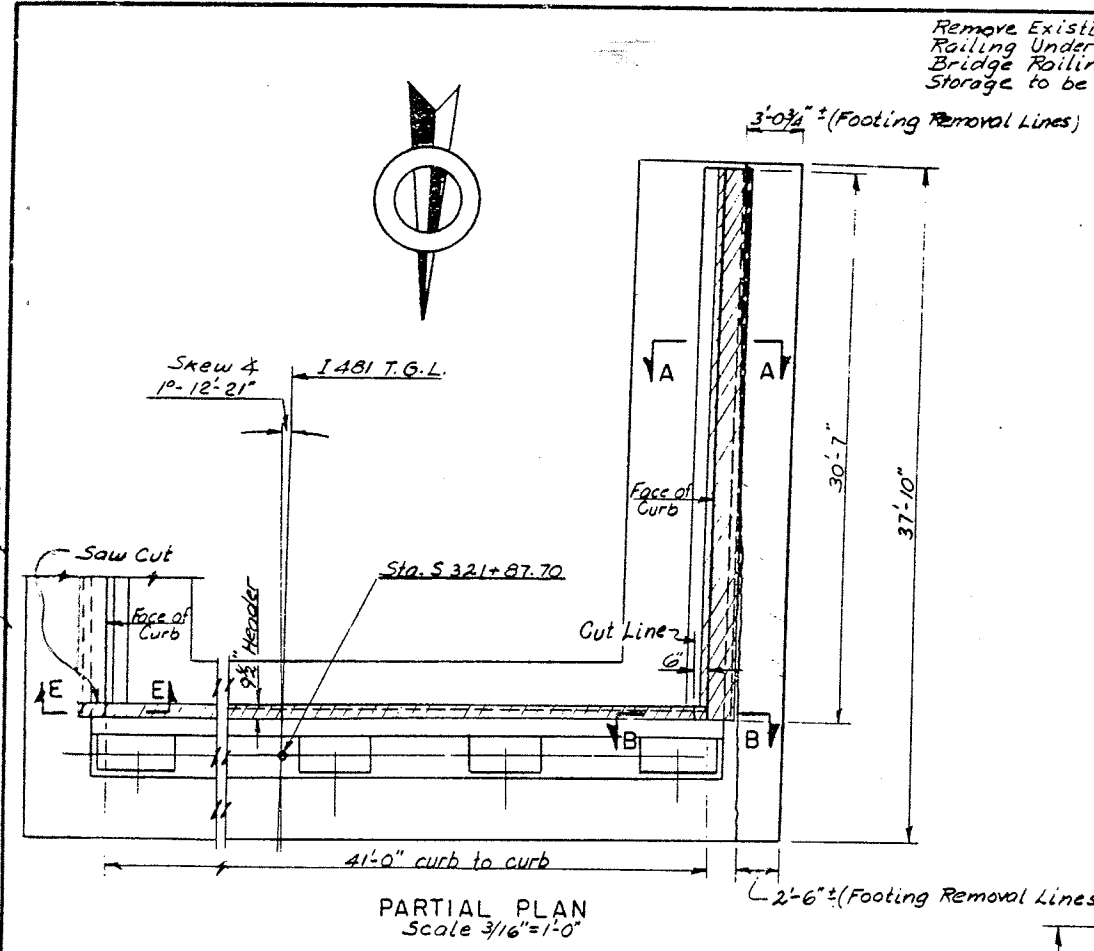


	STATE OF NEW YORK
	DEPARTMENT OF TRANSPORTATION DIVISION OF DESIGN AND CONSTRUCTION
SOUTHBOUND I-481 OVER N.Y.S. THRUWAY	
PIER	



FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-481-2(152)	297	312
Interstate Rte. 571 Extension (I-481) Collamer Interchange to Northern Blvd. Onondaga County				
CAPITAL PROJECT IDENTIFICATION NO.				

Note:  
\* The removal limit (3 1/2") is based on using 1 1/2" overlay and a proposed 5" header (See Dwg. No. 2). If another overlay depth is used the 3 1/2" dimension will have to be adjusted.



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF DESIGN AND CONSTRUCTION

SOUTHBOUND I-481 OVER  
N.Y.S. THRUWAY

SOUTH ABUTMENT  
(REMOVAL)